



**THE DATASHEET OF  
TAJA224M050RNJ**



# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### FEATURES

- General Purpose SMT Chip Tantalum Series
- 100% Surge Current Tested
- 17 Case Sizes Available, Standard and Low Profile Down to 1mm Maximum Height
- CV Range: 0.10 - 2200 $\mu$ F / 2.5 - 50V
- J-Lead Construction

### APPLICATIONS

- General Low Power DC/DC and LDO
- Entertainment / Infotainment Systems
- Height Restricted Design



### MARKING

A, B, C, D, E, F, H, K, S, T, U, V, W, X, Y CASE



P, R CASE



### HOW TO ORDER

|            |                              |   |   |  |   |  |  |
|------------|------------------------------|---|---|--|---|--|--|
| <b>TAJ</b> | <b>C</b>                     | <b>106</b>  | <b>M</b>                                      | <b>035</b>   | <b>R</b>  | <b>NJ</b>                                    | <b>-</b>   |
| Type       | Case Size<br>See table above | Capacitance Code<br>pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | Tolerance<br>K = $\pm 10\%$<br>M = $\pm 20\%$ | Rated DC Voltage<br>002 = 2.5Vdc<br>004 = 4Vdc<br>006 = 6.3Vdc<br>010 = 10Vdc<br>016 = 16Vdc<br>020 = 20Vdc<br>025 = 25Vdc<br>035 = 35Vdc<br>050 = 50Vdc | Packaging<br>R = Pure Tin 7" Reel<br>S = Pure Tin 13" Reel<br>A = Gold Plating 7" Reel<br>B = Gold Plating 13" Reel<br>H = Tin Lead 7" Reel<br>K = Tin Lead 13" Reel<br>H, K = Non RoHS<br>A, B, H, K = Please Contact Manufacturer | Specification Suffix<br>NJ = Standard Suffix | Additional characters may be added for special requirements<br>V = Dry pack Option (selected ratings only) |

### TECHNICAL SPECIFICATIONS

|  |  |     |     |     |    |    |    |    |    |    |  |
|--|--|-----|-----|-----|----|----|----|----|----|----|--|
| Technical Data:  | All technical data relate to an ambient temperature of +25°C                                 |     |     |     |    |    |    |    |    |    |  |
| Capacitance Range:   | 0.10 $\mu$ F to 2200 $\mu$ F   |     |     |     |    |    |    |    |    |    |  |
| Capacitance Tolerance:                                       | $\pm 10\%$ ; $\pm 20\%$  |     |     |     |    |    |    |    |    |    |  |
| Rated Voltage ( $V_R$ )                                      | $\leq +85^\circ\text{C}$ :   | 2.5 | 4   | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |  |
| Category Voltage ( $V_C$ )                                   | $\leq +125^\circ\text{C}$ :  | 1.7 | 2.7 | 4   | 7  | 10 | 13 | 17 | 23 | 33 |  |
| Surge Voltage ( $V_S$ )                                      | $\leq +85^\circ\text{C}$ :   | 3.3 | 5.2 | 8   | 13 | 20 | 26 | 32 | 46 | 65 |  |
| Surge Voltage ( $V_S$ )                                      | $\leq +125^\circ\text{C}$ :  | 2.2 | 3.4 | 5   | 8  | 13 | 16 | 20 | 28 | 40 |  |
| Temperature Range:   | -55°C to +125°C  |     |     |     |    |    |    |    |    |    |  |
| Reliability:   | 1% per 1000 hours at 85°C, $V_R$ with 0.1 $\Omega$ /V series impedance, 60% confidence level |     |     |     |    |    |    |    |    |    |  |
| Termination Finished:  | Sn Plating (standard), Gold and SnPb Plating upon request                                    |     |     |     |    |    |    |    |    |    |  |
| <b>For AEC-Q200 availability, please contact KYOCERA AVX</b> |  |     |     |     |    |    |    |    |    |    |  |

### STANDARD CASE DIMENSIONS:

millimeters (inches)

| Code | EIA Code | EIA Metric | L $\pm 0.20$ (0.008) | W $\pm 0.20$ (0.008) -0.10 (0.004) | H $\pm 0.20$ (0.008) -0.10 (0.004) | W $\pm 0.20$ (0.008) | A $\pm 0.30$ (0.012) -0.20 (0.008) | S Min.       |
|------|----------|------------|----------------------|------------------------------------|------------------------------------|----------------------|------------------------------------|--------------|
| A    | 1206     | 3216-18    | 3.20 (0.126)         | 1.60 (0.063)                       | 1.60 (0.063)                       | 1.20 (0.047)         | 0.80 (0.031)                       | 1.10 (0.043) |
| B    | 1210     | 3528-21    | 3.50 (0.138)         | 2.80 (0.110)                       | 1.90 (0.075)                       | 2.20 (0.087)         | 0.80 (0.031)                       | 1.40 (0.055) |
| C    | 2312     | 6032-28    | 6.00 (0.236)         | 3.20 (0.126)                       | 2.60 (0.102)                       | 2.20 (0.087)         | 1.30 (0.051)                       | 2.90 (0.114) |
| D    | 2917     | 7343-31    | 7.30 (0.287)         | 4.30 (0.169)                       | 2.90 (0.114)                       | 2.40 (0.094)         | 1.30 (0.051)                       | 4.40 (0.173) |
| E    | 2917     | 7343-43    | 7.30 (0.287)         | 4.30 (0.169)                       | 4.10 (0.162)                       | 2.40 (0.094)         | 1.30 (0.051)                       | 4.40 (0.173) |
| U    | 2924     | 7361-43    | 7.30 (0.287)         | 6.10 (0.240)                       | 4.10 (0.162)                       | 3.10 (0.122)         | 1.30 (0.051)                       | 4.40 (0.173) |
| V    | 2924     | 7361-38    | 7.30 (0.287)         | 6.10 (0.240)                       | 3.55 (0.140)                       | 3.10 (0.122)         | 1.30 (0.051)                       | 4.40 (0.173) |

W<sub>1</sub> dimension applies to the termination width for A dimensional area only.

### LOW PROFILE CASE DIMENSIONS:

millimeters (inches)

| Code | EIA Code | EIA Metric | L $\pm 0.20$ (0.008) | W $\pm 0.20$ (0.008) -0.10 (0.004) | H Max.       | W1 $\pm 0.20$ (0.008)                | A $\pm 0.30$ (0.012) -0.20 (0.008) | S Min.       |
|------|----------|------------|----------------------|------------------------------------|--------------|--------------------------------------|------------------------------------|--------------|
| F    | 2312     | 6032-20    | 6.00 (0.236)         | 3.20 (0.126)                       | 2.00 (0.079) | 2.20 (0.087)                         | 1.30 (0.051)                       | 2.90 (0.114) |
| H    | 1210     | 3528-15    | 3.50 (0.138)         | 2.80 (0.110)                       | 1.50 (0.059) | 2.20 (0.087)                         | 0.80 (0.031)                       | 1.40 (0.055) |
| K    | 1206     | 3216-10    | 3.20 (0.126)         | 1.60 (0.063)                       | 1.00 (0.039) | 1.20 (0.047)                         | 0.80 (0.031)                       | 1.10 (0.043) |
| P    | 0805     | 2012-15    | 2.05 (0.081)         | 1.35 (0.053)                       | 1.50 (0.059) | 1.00 $\pm 0.10$ (0.039 $\pm 0.004$ ) | 0.50 (0.020)                       | 0.85 (0.033) |
| R    | 0805     | 2012-12    | 2.05 (0.081)         | 1.30 (0.051)                       | 1.20 (0.047) | 1.00 $\pm 0.10$ (0.039 $\pm 0.004$ ) | 0.50 (0.020)                       | 0.85 (0.033) |
| S    | 1206     | 3216-12    | 3.20 (0.126)         | 1.60 (0.063)                       | 1.20 (0.047) | 1.20 (0.047)                         | 0.80 (0.031)                       | 1.10 (0.043) |
| T    | 1210     | 3528-12    | 3.50 (0.138)         | 2.80 (0.110)                       | 1.20 (0.047) | 2.20 (0.087)                         | 0.80 (0.031)                       | 1.40 (0.055) |
| W    | 2312     | 6032-15    | 6.00 (0.236)         | 3.20 (0.126)                       | 1.50 (0.059) | 2.20 (0.087)                         | 1.30 (0.051)                       | 2.90 (0.114) |
| X    | 2917     | 7343-15    | 7.30 (0.287)         | 4.30 (0.169)                       | 1.50 (0.059) | 2.40 (0.094)                         | 1.30 (0.051)                       | 4.40 (0.173) |
| Y    | 2917     | 7343-20    | 7.30 (0.287)         | 4.30 (0.169)                       | 2.00 (0.079) | 2.40 (0.094)                         | 1.30 (0.051)                       | 4.40 (0.173) |

W<sub>1</sub> dimension applies to the termination width for A dimensional area only.

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### STANDARD TANTALUMS CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance |      | Rated voltage DC (V <sub>R</sub> ) to 85°C |                    |                                    |                                    |                         |                       |                  |         |         |
|-------------|------|--|--------------------|------------------------------------|------------------------------------|-------------------------|-----------------------|------------------|---------|---------|
| μF          | Code | 2.5V (e)                                   | 4V (G)             | 6.3V (J)                           | 10V (A)                            | 16V (C)                 | 20V (D)               | 25V (E)          | 35V (V) | 50V (T) |
| 0.10        | 104  |  |                    |                                    |                                    |                         |                       |                  | A       | A       |
| 0.15        | 154  |  |                    |                                    |                                    |                         |                       |                  | A       | A/B     |
| 0.22        | 224  |  |                    |                                    |                                    |                         |                       |                  | A       | A/B     |
| 0.33        | 334  |  |                    |                                    |                                    |                         |                       |                  | A       | A/B     |
| 0.47        | 474  |  |                    |                                    |                                    |                         |                       | A                | A/B     | A/B/C   |
| 0.68        | 684  |  |                    |                                    |                                    |                         |                       | A                | A/B     | A/B/C   |
| 1.0         | 105  |  |                    |                                    |                                    | A                       | A                     | A                | A/B     | A/B/C   |
| 1.5         | 155  |  |                    |                                    | A                                  | A                       | A                     | A/B              | A/B/C   | B/C/D   |
| 2.2         | 225  |  |                    | A                                  | A                                  | A/B                     | A/B                   | A/B              | A/B/C   | B/C/D   |
| 3.3         | 335  |  |                    | A                                  | A                                  | A/B                     | A/B                   | A/B/C            | B/C     | C/D     |
| 4.7         | 475  |  |                    | A                                  | A/B                                | A/B                     | A/B/C                 | A/B/C            | B/C/D   | C/D     |
| 6.8         | 685  |  |                    | A/B                                | A/B                                | A/B/C                   | A/B/C                 | B/C              | C/D     | C/D     |
| 10          | 106  |  | A                  | A/B                                | A/B/C                              | A/B/C                   | B/C                   | B/C/D            | C/D/E   | D/E/V   |
| 15          | 156  |  | A                  | A/B                                | A/B/C                              | A/B/C                   | B/C/D                 | C/D              | C/D     | D/E/V   |
| 22          | 226  |  | A                  | A/B/C                              | A/B/C                              | A <sup>(M)</sup> /B/C/D | B/C/D                 | C/D              | D/E     | V       |
| 33          | 336  | A  | A/B                | A/B/C                              | A/B/C/D                            | B/C/D                   | C/D                   | C/D/E            | D/E/V   |         |
| 47          | 476  | A  | A/B                | A/B/C/D                            | B/C/D                              | C/D                     | C/D/E                 | D/E              | D/E/V   |         |
| 68          | 686  | A  | A/B                | B/C/D                              | B/C/D                              | C/D                     | C <sup>(M)</sup> /D/E | D/E/V            | V       |         |
| 100         | 107  | A/B  | A/B/C              | B/C/D                              | B/C/D/E                            | C/D/E                   | C/D/E                 | E/V              |         |         |
| 150         | 157  | B  | B/C                | B <sup>(M)</sup> /C/D              | C/D/E                              | D/E/V                   | E/V                   | V <sup>(M)</sup> |         |         |
| 220         | 227  | B/D  | B/C/D              | C/D/E                              | C/D/E                              | D <sup>(M)</sup> /E/V   |                       |                  |         |         |
| 330         | 337  | D  | C/D                | C/D/E                              | D/E/V                              | E <sup>(M)</sup>        |                       |                  |         |         |
| 470         | 477  | C/D  | C/D/E              | D/E/V                              | E/U/V                              |                         |                       |                  |         |         |
| 680         | 687  | C/D/E                                      | D/E                | D/E/V                              | E <sup>(M)</sup> /V <sup>(M)</sup> |                         |                       |                  |         |         |
| 1000        | 108  | D <sup>(M)</sup> /E                        | D/E/V              | E <sup>(M)</sup> /V <sup>(M)</sup> |                                    |                         |                       |                  |         |         |
| 1500        | 158  | D/E/V <sup>(M)</sup>                       | E/V <sup>(M)</sup> |                                    |                                    |                         |                       |                  |         |         |
| 2200        | 228  | V <sup>(M)</sup>                           |                    |                                    |                                    |                         |                       |                  |         |         |

### LOW PROFILE TANTALUMS CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance |      | Rated voltage DC (V <sub>R</sub> ) to 85°C |                           |                           |                           |                     |         |         |         |                         |
|-------------|------|--|---------------------------|---------------------------|---------------------------|---------------------|---------|---------|---------|-------------------------|
| μF          | Code | 2.5V (e)                                   | 4V (G)                    | 6.3V (J)                  | 10V (A)                   | 16V (C)             | 20V (D) | 25V (E) | 35V (V) | 50V (T)                 |
| 0.10        | 104  |  |                           |                           |                           |                     | R/S     |         | R/S     | S                       |
| 0.15        | 154  |  |                           |                           |                           |                     | R/S     | R       | R/S     | S                       |
| 0.22        | 224  |  |                           |                           |                           |                     | R/S     | R       | R/S     | P/R/S                   |
| 0.33        | 334  |  |                           |                           |                           |                     | R/S     | R       | R/S     | P/R <sup>(M)</sup> /S/T |
| 0.47        | 474  |  |                           |                           |                           |                     | R/S     | R/S     | R/S/T   | S/T                     |
| 0.68        | 684  |  |                           |                           |                           | R/S                 | R/S/T   | R/S     | P/S/T   |                         |
| 1.0         | 105  |  |                           |                           | R/S                       | R/S/T               | R/S/T   | P/R/S   | P/S/T   | W                       |
| 1.5         | 155  |  |                           | R/S                       | R/S                       | R/S                 | P/R/S/T | P/S/T   | T       | W                       |
| 2.2         | 225  |  | R/S                       | R/S                       | R/S                       | R/S/T               | P/R/S/T | T       | T       | W                       |
| 3.3         | 335  |  | R/S                       | R/S                       | K/R/S/T                   | R/S/T               | T       | T/W     | W       | Y                       |
| 4.7         | 475  | R  | R/S                       | R/S/T                     | R/S/T                     | K/P/S/T             | T       | T/W     | W       | X/Y                     |
| 6.8         | 685  | R  | R/S/T                     | R/S/T                     | P/R/S/T                   | S/T                 | T       | W       | Y       | Y                       |
| 10          | 106  | R/S  | R/S/T                     | P/R/S/T                   | K/P/R <sup>(M)</sup> /S/T | T/W                 | W       | W       | X/Y     |                         |
| 15          | 156  | R  | R/S/T                     | K/P/R/S/T                 | S/T/W                     | T <sup>(M)</sup> /W | W       | Y       | Y       |                         |
| 22          | 226  | P/R  | K/P/R/S/T                 | K/P <sup>(M)</sup> /S/T/W | T/W                       | W                   | W/Y     | F/Y     | Y       |                         |
| 33          | 336  | K/P/S                                      | K/P <sup>(M)</sup> /S/T/W | T/W                       | W                         | W/Y                 | X/Y     | F/Y     |         |                         |
| 47          | 476  | P <sup>(M)</sup> /S                        | T/W                       | T/W                       | H/W/Y                     | W/X/Y               | X/Y     | Y       |         |                         |
| 68          | 686  | T  | T/W                       | W                         | W/Y                       | F/X/Y               | Y       |         |         |                         |
| 100         | 107  | T/W  | T <sup>(M)</sup> /W       | W/Y                       | W/X/Y                     | F <sup>(M)</sup> /Y |         |         |         |                         |
| 150         | 157  | TM/W                                       | W/Y                       | W/X/Y                     | F/XM/Y                    | Y <sup>(M)</sup>    |         |         |         |                         |
| 220         | 227  | W/Y  | W/X/Y                     | F/X/Y                     | Y                         |                     |         |         |         |                         |
| 330         | 337  | W <sup>(M)</sup> /Y                        | F/X/Y                     | Y                         |                           |                     |         |         |         |                         |
| 470         | 477  | F/Y  | Y                         | Y                         |                           |                     |         |         |         |                         |
| 680         | 687  | Y  | Y <sup>(M)</sup>          |                           |                           |                     |         |         |         |                         |
| 1000        | 108  | Y <sup>(M)</sup>                           |                           |                           |                           |                     |         |         |         |                         |

Released ratings <sup>(M tolerance only)</sup>

Note: Voltage ratings are minimum values. KYOCERA AVX reserves the right to supply higher voltage ratings in the same case size, to the same reliability standards.

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number            | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|------------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                        |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| <b>2.5 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJR475*002#NJ         | R         | 4.7              | 2.5               | 85                     | 1.7                  | 125                       | 0.5           | 6           | 20                    | 52                      | 47   | 21    | 1               |
| TAJR685*002#NJ         | R         | 6.8              | 2.5               | 85                     | 1.7                  | 125                       | 0.5           | 6           | 20                    | 52                      | 47   | 21    | 1               |
| TAJR106*002#NJ         | R         | 10               | 2.5               | 85                     | 1.7                  | 125                       | 0.5           | 8           | 4.5                   | 111                     | 99   | 44    | 1               |
| TAJS106*002#NJ         | S         | 10               | 2.5               | 85                     | 1.7                  | 125                       | 0.5           | 6           | 8                     | 90                      | 81   | 36    | 1               |
| TAJR156*002#NJ         | R         | 15               | 2.5               | 85                     | 1.7                  | 125                       | 0.5           | 8           | 4.1                   | 116                     | 104  | 46    | 1               |
| TAJP226*002#NJ         | P         | 22               | 2.5               | 85                     | 1.7                  | 125                       | 0.5           | 8           | 3.5                   | 131                     | 118  | 52    | 1               |
| TAJR226*002#NJ         | R         | 22               | 2.5               | 85                     | 1.7                  | 125                       | 0.5           | 8           | 3.8                   | 120                     | 108  | 48    | 1               |
| TAJA336*002#NJ         | A         | 33               | 2.5               | 85                     | 1.7                  | 125                       | 0.8           | 8           | 1.7                   | 210                     | 189  | 84    | 1               |
| TAJK336*002#NJ         | K         | 33               | 2.5               | 85                     | 1.7                  | 125                       | 0.8           | 8           | 1.7                   | 196                     | 176  | 78    | 1               |
| TAJP336*002#NJ         | P         | 33               | 2.5               | 85                     | 1.7                  | 125                       | 0.7           | 8           | 3.5                   | 131                     | 118  | 52    | 1               |
| TAJS336*002#NJ         | S         | 33               | 2.5               | 85                     | 1.7                  | 125                       | 0.7           | 8           | 1.5                   | 208                     | 187  | 83    | 1               |
| TAJA476*002#NJ         | A         | 47               | 2.5               | 85                     | 1.7                  | 125                       | 0.9           | 6           | 3                     | 158                     | 142  | 63    | 1               |
| TAJP476M002#NJ         | P         | 47               | 2.5               | 85                     | 1.7                  | 125                       | 1.2           | 12          | 3.2                   | 137                     | 123  | 55    | 1               |
| TAJS476*002#NJ         | S         | 47               | 2.5               | 85                     | 1.7                  | 125                       | 1.2           | 8           | 1.6                   | 202                     | 181  | 81    | 1               |
| TAJA686*002#NJ         | A         | 68               | 2.5               | 85                     | 1.7                  | 125                       | 1.4           | 8           | 1.5                   | 224                     | 201  | 89    | 1               |
| TAJT686*002#NJ         | T         | 68               | 2.5               | 85                     | 1.7                  | 125                       | 1.4           | 8           | 1.5                   | 231                     | 208  | 92    | 1               |
| TAJA107*002#NJ         | A         | 100              | 2.5               | 85                     | 1.7                  | 125                       | 2.5           | 30          | 1.4                   | 231                     | 208  | 93    | 1               |
| TAJB107*002#NJ         | B         | 100              | 2.5               | 85                     | 1.7                  | 125                       | 2.5           | 8           | 1.4                   | 246                     | 222  | 99    | 1               |
| TAJT107*002#NJ         | T         | 100              | 2.5               | 85                     | 1.7                  | 125                       | 2.5           | 15          | 1.3                   | 248                     | 223  | 99    | 1               |
| TAJW107*002#NJ         | W         | 100              | 2.5               | 85                     | 1.7                  | 125                       | 2.5           | 8           | 0.4                   | 474                     | 427  | 190   | 1               |
| TAJB157*002#NJ         | B         | 150              | 2.5               | 85                     | 1.7                  | 125                       | 3             | 10          | 1.6                   | 230                     | 207  | 92    | 1               |
| TAJT157M002#NJ         | T         | 150              | 2.5               | 85                     | 1.7                  | 125                       | 3.8           | 18          | 1.2                   | 258                     | 232  | 103   | 1               |
| TAJW157*002#NJ         | W         | 150              | 2.5               | 85                     | 1.7                  | 125                       | 3.8           | 8           | 0.3                   | 548                     | 493  | 219   | 1               |
| TAJB227*002#NJ         | B         | 220              | 2.5               | 85                     | 1.7                  | 125                       | 4.4           | 16          | 1.6                   | 230                     | 207  | 92    | 1               |
| TAJD227*002#NJ         | D         | 220              | 2.5               | 85                     | 1.7                  | 125                       | 5.5           | 8           | 0.3                   | 707                     | 636  | 283   | 1 <sup>1)</sup> |
| TAJW227*002#NJ         | W         | 220              | 2.5               | 85                     | 1.7                  | 125                       | 5.5           | 8           | 0.3                   | 548                     | 493  | 219   | 1               |
| TAJY227*002#NJ         | Y         | 220              | 2.5               | 85                     | 1.7                  | 125                       | 5.5           | 8           | 0.3                   | 645                     | 581  | 258   | 1 <sup>1)</sup> |
| TAJD337*002#NJ         | D         | 330              | 2.5               | 85                     | 1.7                  | 125                       | 8.2           | 8           | 0.3                   | 707                     | 636  | 283   | 1 <sup>1)</sup> |
| TAJW337M002#NJ         | W         | 330              | 2.5               | 85                     | 1.7                  | 125                       | 8.2           | 12          | 0.3                   | 548                     | 493  | 219   | 1               |
| TAJY337*002#NJ         | Y         | 330              | 2.5               | 85                     | 1.7                  | 125                       | 8.2           | 8           | 0.3                   | 645                     | 581  | 258   | 1 <sup>1)</sup> |
| TAJC477*002#NJ         | C         | 470              | 2.5               | 85                     | 1.7                  | 125                       | 9.4           | 12          | 0.2                   | 742                     | 667  | 297   | 1               |
| TAJD477*002#NJ         | D         | 470              | 2.5               | 85                     | 1.7                  | 125                       | 11.6          | 8           | 0.2                   | 866                     | 779  | 346   | 1 <sup>1)</sup> |
| TAJF477*002#NJ         | F         | 470              | 2.5               | 85                     | 1.7                  | 125                       | 11.8          | 12          | 0.3                   | 577                     | 520  | 231   | 1               |
| TAJY477*002#NJ         | Y         | 470              | 2.5               | 85                     | 1.7                  | 125                       | 11            | 12          | 0.2                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |
| TAJC687*002#NJ         | C         | 680              | 2.5               | 85                     | 1.7                  | 125                       | 17            | 18          | 0.2                   | 742                     | 667  | 297   | 1               |
| TAJD687*002#NJ         | D         | 680              | 2.5               | 85                     | 1.7                  | 125                       | 17            | 16          | 0.2                   | 866                     | 779  | 346   | 1 <sup>1)</sup> |
| TAJE687*002#NJ         | E         | 680              | 2.5               | 85                     | 1.7                  | 125                       | 17            | 10          | 0.2                   | 908                     | 817  | 363   | 1 <sup>1)</sup> |
| TAJY687*002#NJ         | Y         | 680              | 2.5               | 85                     | 1.7                  | 125                       | 17            | 12          | 0.2                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |
| TAJD108M002#NJ         | D         | 1000             | 2.5               | 85                     | 1.7                  | 125                       | 25            | 20          | 0.2                   | 866                     | 779  | 346   | 1 <sup>1)</sup> |
| TAJE108*002#NJ         | E         | 1000             | 2.5               | 85                     | 1.7                  | 125                       | 25            | 14          | 0.4                   | 642                     | 578  | 257   | 1 <sup>1)</sup> |
| TAJY108M002#NJ         | Y         | 1000             | 2.5               | 85                     | 1.7                  | 125                       | 25            | 30          | 0.2                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |
| TAJD158*002#NJ         | D         | 1500             | 2.5               | 85                     | 1.7                  | 125                       | 37.5          | 60          | 0.2                   | 866                     | 779  | 346   | 1 <sup>1)</sup> |
| TAJE158*002#NJ         | E         | 1500             | 2.5               | 85                     | 1.7                  | 125                       | 37            | 20          | 0.2                   | 908                     | 817  | 363   | 1 <sup>1)</sup> |
| TAJV158M002#NJ         | V         | 1500             | 2.5               | 85                     | 1.7                  | 125                       | 30            | 20          | 0.2                   | 1118                    | 1006 | 447   | 1 <sup>1)</sup> |
| TAJV228M002#NJ         | V         | 2200             | 2.5               | 85                     | 1.7                  | 125                       | 55            | 50          | 0.2                   | 1118                    | 1006 | 447   | 1 <sup>1)</sup> |
| <b>4 Volt @ 85°C</b>   |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJR225*004#NJ         | R         | 2.2              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS225*004#NJ         | S         | 2.2              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 25                    | 51                      | 46   | 20    | 1               |
| TAJR335*004#NJ         | R         | 3.3              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 20                    | 52                      | 47   | 21    | 1               |
| TAJS335*004#NJ         | S         | 3.3              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 18                    | 60                      | 54   | 24    | 1               |
| TAJR475*004#NJ         | R         | 4.7              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 12                    | 68                      | 61   | 27    | 1               |
| TAJS475*004#NJ         | S         | 4.7              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 10                    | 81                      | 73   | 32    | 1               |
| TAJR685*004#NJ         | R         | 6.8              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 5.2                   | 103                     | 93   | 41    | 1               |
| TAJS685*004#NJ         | S         | 6.8              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 8                     | 90                      | 81   | 36    | 1               |
| TAJT685*004#NJ         | T         | 6.8              | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 6                     | 115                     | 104  | 46    | 1               |
| TAJA106*004#NJ         | A         | 10               | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 6                     | 112                     | 101  | 45    | 1               |
| TAJR106*004#NJ         | R         | 10               | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 7                     | 89                      | 80   | 35    | 1               |
| TAJS106*004#NJ         | S         | 10               | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 6                     | 104                     | 94   | 42    | 1               |
| TAJT106*004#NJ         | T         | 10               | 4                 | 85                     | 2.7                  | 125                       | 0.5           | 6           | 5                     | 126                     | 114  | 51    | 1               |
| TAJA156*004#NJ         | A         | 15               | 4                 | 85                     | 2.7                  | 125                       | 0.6           | 6           | 4                     | 137                     | 123  | 55    | 1               |
| TAJR156*004#NJ         | R         | 15               | 4                 | 85                     | 2.7                  | 125                       | 0.6           | 8           | 4                     | 117                     | 106  | 47    | 1               |
| TAJS156*004#NJ         | S         | 15               | 4                 | 85                     | 2.7                  | 125                       | 0.6           | 8           | 4                     | 127                     | 115  | 51    | 1               |
| TAJT156*004#NJ         | T         | 15               | 4                 | 85                     | 2.7                  | 125                       | 0.6           | 6           | 2                     | 200                     | 180  | 80    | 1               |
| TAJA226*004#NJ         | A         | 22               | 4                 | 85                     | 2.7                  | 125                       | 0.9           | 6           | 3.5                   | 146                     | 132  | 59    | 1               |
| TAJK226*004#NJ         | K         | 22               | 4                 | 85                     | 2.7                  | 125                       | 0.9           | 8           | 1.8                   | 190                     | 171  | 76    | 1               |
| TAJP226*004#NJ         | P         | 22               | 4                 | 85                     | 2.7                  | 125                       | 0.9           | 8           | 4                     | 122                     | 110  | 49    | 1               |
| TAJR226*004#NJ         | R         | 22               | 4                 | 85                     | 2.7                  | 125                       | 0.9           | 8           | 3.8                   | 120                     | 108  | 48    | 1               |
| TAJS226*004#NJ         | S         | 22               | 4                 | 85                     | 2.7                  | 125                       | 0.9           | 8           | 3.5                   | 136                     | 123  | 55    | 1               |

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number            | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|------------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                        |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| TAJT226*004#NJ         | T         | 22               | 4                 | 85                     | 2.7                  | 125                       | 0.9           | 6           | 1.9                   | 205                     | 185  | 82    | 1               |
| TAJA336*004#NJ         | A         | 33               | 4                 | 85                     | 2.7                  | 125                       | 1.3           | 6           | 3                     | 158                     | 142  | 63    | 1               |
| TAJB336*004#NJ         | B         | 33               | 4                 | 85                     | 2.7                  | 125                       | 1.3           | 6           | 2.8                   | 174                     | 157  | 70    | 1               |
| TAJK336*004#NJ         | K         | 33               | 4                 | 85                     | 2.7                  | 125                       | 1.3           | 10          | 1.7                   | 196                     | 176  | 78    | 1               |
| TAJP336M004#NJ         | P         | 33               | 4                 | 85                     | 2.7                  | 125                       | 1.3           | 8           | 2.8                   | 146                     | 132  | 59    | 1               |
| TAJS336*004#NJ         | S         | 33               | 4                 | 85                     | 2.7                  | 125                       | 1.3           | 8           | 1.7                   | 196                     | 176  | 78    | 1               |
| TAJT336*004#NJ         | T         | 33               | 4                 | 85                     | 2.7                  | 125                       | 1.3           | 6           | 1.7                   | 217                     | 195  | 87    | 1               |
| TAJW336*004#NJ         | W         | 33               | 4                 | 85                     | 2.7                  | 125                       | 1.3           | 6           | 0.6                   | 387                     | 349  | 155   | 1               |
| TAJA476*004#NJ         | A         | 47               | 4                 | 85                     | 2.7                  | 125                       | 1.9           | 8           | 2.6                   | 170                     | 153  | 68    | 1               |
| TAJB476*004#NJ         | B         | 47               | 4                 | 85                     | 2.7                  | 125                       | 1.9           | 6           | 2.4                   | 188                     | 169  | 75    | 1               |
| TAJT476*004#NJ         | T         | 47               | 4                 | 85                     | 2.7                  | 125                       | 1.9           | 10          | 1.6                   | 224                     | 201  | 89    | 1               |
| TAJW476*004#NJ         | W         | 47               | 4                 | 85                     | 2.7                  | 125                       | 1.9           | 6           | 0.5                   | 424                     | 382  | 170   | 1               |
| TAJA686*004#NJ         | A         | 68               | 4                 | 85                     | 2.7                  | 125                       | 2.7           | 10          | 1.5                   | 224                     | 201  | 89    | 1               |
| TAJB686*004#NJ         | B         | 68               | 4                 | 85                     | 2.7                  | 125                       | 2.7           | 6           | 1.8                   | 217                     | 196  | 87    | 1               |
| TAJT686*004#NJ         | T         | 68               | 4                 | 85                     | 2.7                  | 125                       | 2.7           | 15          | 1.5                   | 231                     | 208  | 92    | 1               |
| TAJW686*004#NJ         | W         | 68               | 4                 | 85                     | 2.7                  | 125                       | 2.7           | 6           | 0.4                   | 474                     | 427  | 190   | 1               |
| TAJA107*004#NJ         | A         | 100              | 4                 | 85                     | 2.7                  | 125                       | 4             | 30          | 1.4                   | 231                     | 208  | 93    | 1               |
| TAJB107*004#NJ         | B         | 100              | 4                 | 85                     | 2.7                  | 125                       | 4             | 8           | 0.9                   | 307                     | 277  | 123   | 1               |
| TAJC107*004#NJ         | C         | 100              | 4                 | 85                     | 2.7                  | 125                       | 4             | 6           | 1.3                   | 291                     | 262  | 116   | 1               |
| TAJT107M004#NJ         | T         | 100              | 4                 | 85                     | 2.7                  | 125                       | 4             | 14          | 1.4                   | 239                     | 215  | 96    | 1               |
| TAJW107*004#NJ         | W         | 100              | 4                 | 85                     | 2.7                  | 125                       | 4             | 6           | 0.4                   | 474                     | 427  | 190   | 1               |
| TAJB157*004#NJ         | B         | 150              | 4                 | 85                     | 2.7                  | 125                       | 6             | 10          | 1.5                   | 238                     | 214  | 95    | 1               |
| TAJC157*004#NJ         | C         | 150              | 4                 | 85                     | 2.7                  | 125                       | 6             | 6           | 0.3                   | 606                     | 545  | 242   | 1               |
| TAJW157*004#NJ         | W         | 150              | 4                 | 85                     | 2.7                  | 125                       | 6             | 6           | 0.5                   | 424                     | 382  | 170   | 1               |
| TAJY157*004#NJ         | Y         | 150              | 4                 | 85                     | 2.7                  | 125                       | 6             | 6           | 0.4                   | 559                     | 503  | 224   | 1 <sup>1)</sup> |
| TAJB227*004#NJ         | B         | 220              | 4                 | 85                     | 2.7                  | 125                       | 8.8           | 12          | 1.1                   | 278                     | 250  | 111   | 1               |
| TAJC227*004#NJ         | C         | 220              | 4                 | 85                     | 2.7                  | 125                       | 8.8           | 8           | 1.2                   | 303                     | 272  | 121   | 1               |
| TAJD227*004#NJ         | D         | 220              | 4                 | 85                     | 2.7                  | 125                       | 8.8           | 8           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJW227*004#NJ         | W         | 220              | 4                 | 85                     | 2.7                  | 125                       | 8.8           | 8           | 0.3                   | 548                     | 493  | 219   | 1               |
| TAJX227*004#NJ         | X         | 220              | 4                 | 85                     | 2.7                  | 125                       | 8.8           | 8           | 0.3                   | 577                     | 520  | 231   | 1 <sup>1)</sup> |
| TAJY227*004#NJ         | Y         | 220              | 4                 | 85                     | 2.7                  | 125                       | 8.8           | 8           | 0.3                   | 645                     | 581  | 258   | 1 <sup>1)</sup> |
| TAJC337*004#NJ         | C         | 330              | 4                 | 85                     | 2.7                  | 125                       | 13.2          | 8           | 0.3                   | 606                     | 545  | 242   | 1               |
| TAJD337*004#NJ         | D         | 330              | 4                 | 85                     | 2.7                  | 125                       | 13.2          | 8           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJF337*004#NJ         | F         | 330              | 4                 | 85                     | 2.7                  | 125                       | 13.2          | 10          | 0.3                   | 577                     | 520  | 231   | 1               |
| TAJX337*004#NJ         | X         | 330              | 4                 | 85                     | 2.7                  | 125                       | 13.2          | 8           | 0.3                   | 577                     | 520  | 231   | 1 <sup>1)</sup> |
| TAJY337*004#NJ         | Y         | 330              | 4                 | 85                     | 2.7                  | 125                       | 13.2          | 12          | 0.4                   | 559                     | 503  | 224   | 1 <sup>1)</sup> |
| TAJC477*004#NJ         | C         | 470              | 4                 | 85                     | 2.7                  | 125                       | 18.8          | 14          | 0.3                   | 606                     | 545  | 242   | 1               |
| TAJD477*004#NJ         | D         | 470              | 4                 | 85                     | 2.7                  | 125                       | 18.8          | 12          | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE477*004#NJ         | E         | 470              | 4                 | 85                     | 2.7                  | 125                       | 18.8          | 10          | 0.5                   | 574                     | 517  | 230   | 1 <sup>1)</sup> |
| TAJY477*004#NJ         | Y         | 470              | 4                 | 85                     | 2.7                  | 125                       | 18.8          | 14          | 0.4                   | 559                     | 503  | 224   | 1 <sup>1)</sup> |
| TAJD687*004#NJ         | D         | 680              | 4                 | 85                     | 2.7                  | 125                       | 27.2          | 14          | 0.5                   | 548                     | 493  | 219   | 1 <sup>1)</sup> |
| TAJE687*004#NJ         | E         | 680              | 4                 | 85                     | 2.7                  | 125                       | 27.2          | 10          | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJY687M004#NJ         | Y         | 680              | 4                 | 85                     | 2.7                  | 125                       | 27.2          | 25          | 0.2                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |
| TAJD108*004#NJ         | D         | 1000             | 4                 | 85                     | 2.7                  | 125                       | 40            | 60          | 0.2                   | 866                     | 779  | 346   | 1 <sup>1)</sup> |
| TAJE108*004#NJ         | E         | 1000             | 4                 | 85                     | 2.7                  | 125                       | 40            | 14          | 0.4                   | 642                     | 578  | 257   | 1 <sup>1)</sup> |
| TAJV108*004#NJ         | V         | 1000             | 4                 | 85                     | 2.7                  | 125                       | 40            | 16          | 0.2                   | 1118                    | 1006 | 447   | 1 <sup>1)</sup> |
| TAJE158*004#NJ         | E         | 1500             | 4                 | 85                     | 2.7                  | 125                       | 60            | 30          | 0.2                   | 908                     | 817  | 363   | 1 <sup>1)</sup> |
| TAJV158M004#NJ         | V         | 1500             | 4                 | 85                     | 2.7                  | 125                       | 60            | 30          | 0.2                   | 1118                    | 1006 | 447   | 1 <sup>1)</sup> |
| <b>6.3 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJR155*006#NJ         | R         | 1.5              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS155*006#NJ         | S         | 1.5              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 25                    | 51                      | 46   | 20    | 1               |
| TAJA225*006#NJ         | A         | 2.2              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 9                     | 91                      | 82   | 37    | 1               |
| TAJR225*006#NJ         | R         | 2.2              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 20                    | 52                      | 47   | 21    | 1               |
| TAJS225*006#NJ         | S         | 2.2              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 18                    | 60                      | 54   | 24    | 1               |
| TAJA335*006#NJ         | A         | 3.3              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 7                     | 104                     | 93   | 41    | 1               |
| TAJR335*006#NJ         | R         | 3.3              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 12                    | 68                      | 61   | 27    | 1               |
| TAJS335*006#NJ         | S         | 3.3              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 9                     | 85                      | 76   | 34    | 1               |
| TAJA475*006#NJ         | A         | 4.7              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 6                     | 112                     | 101  | 45    | 1               |
| TAJR475*006#NJ         | R         | 4.7              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 7                     | 89                      | 80   | 35    | 1               |
| TAJS475*006#NJ         | S         | 4.7              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 7.5                   | 93                      | 84   | 37    | 1               |
| TAJT475*006#NJ         | T         | 4.7              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 6                     | 115                     | 104  | 46    | 1               |
| TAJA685*006#NJ         | A         | 6.8              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 5                     | 122                     | 110  | 49    | 1               |
| TAJB685*006#NJ         | B         | 6.8              | 6.3               | 85                     | 4                    | 125                       | 0.6           | 6           | 5                     | 130                     | 117  | 52    | 1               |
| TAJR685*006#NJ         | R         | 6.8              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 8           | 7                     | 89                      | 80   | 35    | 1               |
| TAJS685*006#NJ         | S         | 6.8              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 2.6                   | 158                     | 142  | 63    | 1               |
| TAJT685*006#NJ         | T         | 6.8              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6           | 5                     | 126                     | 114  | 51    | 1               |
| TAJA106*006#NJ         | A         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 6           | 4                     | 137                     | 123  | 55    | 1               |
| TAJB106*006#NJ         | B         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 6           | 3                     | 168                     | 151  | 67    | 1               |
| TAJP106*006#NJ         | P         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 8           | 6                     | 100                     | 90   | 40    | 1               |
| TAJR106*006#NJ         | R         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 8           | 6                     | 96                      | 86   | 38    | 1               |

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number           | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|-----------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                       |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| TAJS106*006#NJ        | S         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 8           | 4                     | 127                     | 115  | 51    | 1               |
| TAJT106*006#NJ        | T         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 6           | 4                     | 141                     | 127  | 57    | 1               |
| TAJA156*006#NJ        | A         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 6           | 3.5                   | 146                     | 132  | 59    | 1               |
| TAJB156*006#NJ        | B         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 6           | 2                     | 206                     | 186  | 82    | 1               |
| TAJK156*006#NJ        | K         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 6           | 2                     | 180                     | 162  | 72    | 1               |
| TAJP156*006#NJ        | P         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 8           | 3.5                   | 131                     | 118  | 52    | 1               |
| TAJR156*006#NJ        | R         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 8           | 4.1                   | 116                     | 104  | 46    | 1               |
| TAJS156*006#NJ        | S         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 8           | 3.5                   | 136                     | 123  | 55    | 1               |
| TAJT156*006#NJ        | T         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 6           | 3.5                   | 151                     | 136  | 60    | 1               |
| TAJA226*006#NJ        | A         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.4           | 6           | 3                     | 158                     | 142  | 63    | 1               |
| TAJB226*006#NJ        | B         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.4           | 6           | 2.5                   | 184                     | 166  | 74    | 1               |
| TAJC226*006#NJ        | C         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.4           | 6           | 2                     | 235                     | 211  | 94    | 1               |
| TAJK226*006#NJ        | K         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.3           | 10          | 1.8                   | 190                     | 171  | 76    | 1               |
| TAJP226M006#NJ        | P         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.3           | 8           | 3.3                   | 135                     | 121  | 54    | 1               |
| TAJS226*006#NJ        | S         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.3           | 10          | 1.8                   | 190                     | 171  | 76    | 1               |
| TAJT226*006#NJ        | T         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.4           | 8           | 2.5                   | 179                     | 161  | 72    | 1               |
| TAJW226*006#NJ        | W         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.3           | 6           | 0.6                   | 387                     | 349  | 155   | 1               |
| TAJA336*006#NJ        | A         | 33               | 6.3               | 85                     | 4                    | 125                       | 2.1           | 8           | 2.2                   | 185                     | 166  | 74    | 1               |
| TAJB336*006#NJ        | B         | 33               | 6.3               | 85                     | 4                    | 125                       | 2.1           | 6           | 2.2                   | 197                     | 177  | 79    | 1               |
| TAJC336*006#NJ        | C         | 33               | 6.3               | 85                     | 4                    | 125                       | 2.1           | 6           | 1.8                   | 247                     | 222  | 99    | 1               |
| TAJT336*006#NJ        | T         | 33               | 6.3               | 85                     | 4                    | 125                       | 2.1           | 10          | 2.5                   | 179                     | 161  | 72    | 1               |
| TAJW336*006#NJ        | W         | 33               | 6.3               | 85                     | 4                    | 125                       | 2             | 6           | 0.5                   | 424                     | 382  | 170   | 1               |
| TAJA476*006#NJ        | A         | 47               | 6.3               | 85                     | 4                    | 125                       | 2.8           | 10          | 1.6                   | 217                     | 195  | 87    | 1               |
| TAJB476*006#NJ        | B         | 47               | 6.3               | 85                     | 4                    | 125                       | 3             | 6           | 2                     | 206                     | 186  | 82    | 1               |
| TAJC476*006#NJ        | C         | 47               | 6.3               | 85                     | 4                    | 125                       | 3             | 6           | 1.6                   | 262                     | 236  | 105   | 1               |
| TAJD476*006#NJ        | D         | 47               | 6.3               | 85                     | 4                    | 125                       | 3             | 6           | 1.1                   | 369                     | 332  | 148   | 1 <sup>1)</sup> |
| TAJT476*006#NJ        | T         | 47               | 6.3               | 85                     | 4                    | 125                       | 2.8           | 10          | 1.6                   | 224                     | 201  | 89    | 1               |
| TAJW476*006#NJ        | W         | 47               | 6.3               | 85                     | 4                    | 125                       | 2.8           | 6           | 0.5                   | 424                     | 382  | 170   | 1               |
| TAJB686*006#NJ        | B         | 68               | 6.3               | 85                     | 4                    | 125                       | 4             | 8           | 0.9                   | 307                     | 277  | 123   | 1               |
| TAJC686*006#NJ        | C         | 68               | 6.3               | 85                     | 4                    | 125                       | 4.3           | 6           | 1.5                   | 271                     | 244  | 108   | 1               |
| TAJD686*006#NJ        | D         | 68               | 6.3               | 85                     | 4                    | 125                       | 4.3           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJW686*006#NJ        | W         | 68               | 6.3               | 85                     | 4                    | 125                       | 4.3           | 6           | 1.5                   | 245                     | 220  | 98    | 1               |
| TAJB107*006#NJ        | B         | 100              | 6.3               | 85                     | 4                    | 125                       | 6.3           | 10          | 1.7                   | 224                     | 201  | 89    | 1               |
| TAJC107*006#NJ        | C         | 100              | 6.3               | 85                     | 4                    | 125                       | 6.3           | 6           | 0.9                   | 350                     | 315  | 140   | 1               |
| TAJD107*006#NJ        | D         | 100              | 6.3               | 85                     | 4                    | 125                       | 6.3           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJW107*006#NJ        | W         | 100              | 6.3               | 85                     | 4                    | 125                       | 6.3           | 6           | 0.9                   | 316                     | 285  | 126   | 1               |
| TAJY107*006#NJ        | Y         | 100              | 6.3               | 85                     | 4                    | 125                       | 6.3           | 6           | 0.7                   | 423                     | 380  | 169   | 1 <sup>1)</sup> |
| TAJB157M006#NJ        | B         | 150              | 6.3               | 85                     | 4                    | 125                       | 9.5           | 10          | 1.2                   | 266                     | 240  | 106   | 1               |
| TAJC157*006#NJ        | C         | 150              | 6.3               | 85                     | 4                    | 125                       | 9.5           | 6           | 1.3                   | 291                     | 262  | 116   | 1               |
| TAJD157*006#NJ        | D         | 150              | 6.3               | 85                     | 4                    | 125                       | 9.5           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJW157*006#NJ        | W         | 150              | 6.3               | 85                     | 4                    | 125                       | 9             | 8           | 0.3                   | 548                     | 493  | 219   | 1               |
| TAJX157*006#NJ        | X         | 150              | 6.3               | 85                     | 4                    | 125                       | 9             | 6           | 0.4                   | 500                     | 450  | 200   | 1 <sup>1)</sup> |
| TAJY157*006#NJ        | Y         | 150              | 6.3               | 85                     | 4                    | 125                       | 9.5           | 6           | 0.4                   | 559                     | 503  | 224   | 1 <sup>1)</sup> |
| TAJC227*006#NJ        | C         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.9          | 8           | 1.2                   | 303                     | 272  | 121   | 1               |
| TAJD227*006#NJ        | D         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.9          | 8           | 0.4                   | 612                     | 551  | 245   | 1 <sup>1)</sup> |
| TAJE227*006#NJ        | E         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.9          | 8           | 0.4                   | 642                     | 578  | 257   | 1 <sup>1)</sup> |
| TAJF227*006#NJ        | F         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.2          | 10          | 0.3                   | 577                     | 520  | 231   | 1               |
| TAJX227*006#NJ        | X         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.2          | 8           | 0.3                   | 577                     | 520  | 231   | 1 <sup>1)</sup> |
| TAJY227*006#NJ        | Y         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.9          | 8           | 0.7                   | 423                     | 380  | 169   | 1 <sup>1)</sup> |
| TAJC337*006#NJ        | C         | 330              | 6.3               | 85                     | 4                    | 125                       | 19.8          | 12          | 0.5                   | 469                     | 422  | 188   | 1               |
| TAJD337*006#NJ        | D         | 330              | 6.3               | 85                     | 4                    | 125                       | 20.8          | 8           | 0.4                   | 612                     | 551  | 245   | 1 <sup>1)</sup> |
| TAJE337*006#NJ        | E         | 330              | 6.3               | 85                     | 4                    | 125                       | 20.8          | 8           | 0.4                   | 642                     | 578  | 257   | 1 <sup>1)</sup> |
| TAJY337*006#NJ        | Y         | 330              | 6.3               | 85                     | 4                    | 125                       | 20.8          | 12          | 0.4                   | 559                     | 503  | 224   | 1 <sup>1)</sup> |
| TAJD477*006#NJ        | D         | 470              | 6.3               | 85                     | 4                    | 125                       | 28            | 12          | 0.4                   | 612                     | 551  | 245   | 1 <sup>1)</sup> |
| TAJE477*006#NJ        | E         | 470              | 6.3               | 85                     | 4                    | 125                       | 28            | 10          | 0.4                   | 642                     | 578  | 257   | 1 <sup>1)</sup> |
| TAJV477*006#NJ        | V         | 470              | 6.3               | 85                     | 4                    | 125                       | 28            | 10          | 0.4                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |
| TAJY477*006#NJ        | Y         | 470              | 6.3               | 85                     | 4                    | 125                       | 28.2          | 20          | 0.2                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |
| TAJD687*006#NJ        | D         | 680              | 6.3               | 85                     | 4                    | 125                       | 40.8          | 20          | 0.5                   | 548                     | 493  | 219   | 3               |
| TAJE687*006#NJ        | E         | 680              | 6.3               | 85                     | 4                    | 125                       | 42.8          | 10          | 0.5                   | 574                     | 517  | 230   | 1 <sup>1)</sup> |
| TAJV687*006#NJ        | V         | 680              | 6.3               | 85                     | 4                    | 125                       | 42.8          | 10          | 0.5                   | 707                     | 636  | 283   | 1 <sup>1)</sup> |
| TAJE108M006#NJ        | E         | 1000             | 6.3               | 85                     | 4                    | 125                       | 60            | 20          | 0.2                   | 908                     | 817  | 363   | 1 <sup>1)</sup> |
| TAJV108M006#NJ        | V         | 1000             | 6.3               | 85                     | 4                    | 125                       | 60            | 16          | 0.2                   | 1118                    | 1006 | 447   | 1 <sup>1)</sup> |
| <b>10 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJR105*010#NJ        | R         | 1                | 10                | 85                     | 7                    | 125                       | 0.5           | 4           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS105*010#NJ        | S         | 1                | 10                | 85                     | 7                    | 125                       | 0.5           | 4           | 25                    | 51                      | 46   | 20    | 1               |
| TAJA155*010#NJ        | A         | 1.5              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 10                    | 87                      | 78   | 35    | 1               |
| TAJR155*010#NJ        | R         | 1.5              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 20                    | 52                      | 47   | 21    | 1               |
| TAJS155*010#NJ        | S         | 1.5              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 20                    | 57                      | 51   | 23    | 1               |
| TAJA225*010#NJ        | A         | 2.2              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 7                     | 104                     | 93   | 41    | 1               |
| TAJR225*010#NJ        | R         | 2.2              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 15                    | 61                      | 54   | 24    | 1               |

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TDS-PTNO-0024 | Rev 1

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number    | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|----------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| TAJS225*010#NJ | S         | 2.2              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 12                    | 74                      | 66   | 29    | 1               |
| TAJA335*010#NJ | A         | 3.3              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 5.5                   | 117                     | 105  | 47    | 1               |
| TAJK335*010#NJ | K         | 3.3              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 5.5                   | 109                     | 98   | 43    | 1               |
| TAJR335*010#NJ | R         | 3.3              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 8                     | 83                      | 75   | 33    | 1               |
| TAJS335*010#NJ | S         | 3.3              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 8                     | 90                      | 81   | 36    | 1               |
| TAJT335*010#NJ | T         | 3.3              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 6                     | 115                     | 104  | 46    | 1               |
| TAJA475*010#NJ | A         | 4.7              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 5                     | 122                     | 110  | 49    | 1               |
| TAJB475*010#NJ | B         | 4.7              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 4                     | 146                     | 131  | 58    | 1               |
| TAJR475*010#NJ | R         | 4.7              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 9                     | 78                      | 70   | 31    | 1               |
| TAJS475*010#NJ | S         | 4.7              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 5                     | 114                     | 103  | 46    | 1               |
| TAJT475*010#NJ | T         | 4.7              | 10                | 85                     | 7                    | 125                       | 0.5           | 6           | 5                     | 126                     | 114  | 51    | 1               |
| TAJA685*010#NJ | A         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.7           | 6           | 4                     | 137                     | 123  | 55    | 1               |
| TAJB685*010#NJ | B         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.7           | 6           | 3                     | 168                     | 151  | 67    | 1               |
| TAJP685*010#NJ | P         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.6           | 6           | 5                     | 110                     | 99   | 44    | 1               |
| TAJR685*010#NJ | R         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.7           | 6           | 5.2                   | 103                     | 93   | 41    | 1               |
| TAJS685*010#NJ | S         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.7           | 6           | 4                     | 127                     | 115  | 51    | 1               |
| TAJT685*010#NJ | T         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.7           | 6           | 4                     | 141                     | 127  | 57    | 1               |
| TAJA106*010#NJ | A         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 6           | 3                     | 158                     | 142  | 63    | 1               |
| TAJB106*010#NJ | B         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 6           | 2.1                   | 201                     | 181  | 80    | 1               |
| TAJC106*010#NJ | C         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 6           | 2.5                   | 210                     | 189  | 84    | 1               |
| TAJK106*010#NJ | K         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 6           | 2.2                   | 172                     | 155  | 69    | 1               |
| TAJP106*010#NJ | P         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 8           | 6                     | 100                     | 90   | 40    | 1               |
| TAJR106*010#NJ | R         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 20          | 6                     | 96                      | 86   | 38    | 1               |
| TAJS106*010#NJ | S         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 8           | 3                     | 147                     | 132  | 59    | 1               |
| TAJT106*010#NJ | T         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 6           | 3                     | 163                     | 147  | 65    | 1               |
| TAJA156*010#NJ | A         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 6           | 3.2                   | 153                     | 138  | 61    | 1               |
| TAJB156*010#NJ | B         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 6           | 2.8                   | 174                     | 157  | 70    | 1               |
| TAJC156*010#NJ | C         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 6           | 2                     | 235                     | 211  | 94    | 1               |
| TAJS156*010#NJ | S         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 6           | 2                     | 180                     | 162  | 72    | 1               |
| TAJT156*010#NJ | T         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 8           | 2.8                   | 169                     | 152  | 68    | 1               |
| TAJW156*010#NJ | W         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 6           | 0.7                   | 359                     | 323  | 143   | 1               |
| TAJA226*010#NJ | A         | 22               | 10                | 85                     | 7                    | 125                       | 2.2           | 8           | 3                     | 158                     | 142  | 63    | 1               |
| TAJB226*010#NJ | B         | 22               | 10                | 85                     | 7                    | 125                       | 2.2           | 6           | 2.4                   | 188                     | 169  | 75    | 1               |
| TAJC226*010#NJ | C         | 22               | 10                | 85                     | 7                    | 125                       | 2.2           | 6           | 1.8                   | 247                     | 222  | 99    | 1               |
| TAJT226*010#NJ | T         | 22               | 10                | 85                     | 7                    | 125                       | 2.2           | 8           | 2.2                   | 191                     | 172  | 76    | 1               |
| TAJW226*010#NJ | W         | 22               | 10                | 85                     | 7                    | 125                       | 2.2           | 6           | 0.6                   | 387                     | 349  | 155   | 1               |
| TAJA336*010#NJ | A         | 33               | 10                | 85                     | 7                    | 125                       | 3.3           | 8           | 1.7                   | 210                     | 189  | 84    | 1               |
| TAJB336*010#NJ | B         | 33               | 10                | 85                     | 7                    | 125                       | 3.3           | 6           | 1.8                   | 217                     | 196  | 87    | 1               |
| TAJC336*010#NJ | C         | 33               | 10                | 85                     | 7                    | 125                       | 3.3           | 6           | 1.6                   | 262                     | 236  | 105   | 1               |
| TAJD336*010#NJ | D         | 33               | 10                | 85                     | 7                    | 125                       | 3.3           | 6           | 1.1                   | 369                     | 332  | 148   | 1 <sup>1)</sup> |
| TAJW336*010#NJ | W         | 33               | 10                | 85                     | 7                    | 125                       | 3.3           | 6           | 1.6                   | 237                     | 213  | 95    | 1               |
| TAJB476*010#NJ | B         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 8           | 1                     | 292                     | 262  | 117   | 1               |
| TAJC476*010#NJ | C         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 6           | 1.2                   | 303                     | 272  | 121   | 1               |
| TAJD476*010#NJ | D         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 6           | 0.4                   | 612                     | 551  | 245   | 1 <sup>1)</sup> |
| TAJH476*006#NJ | H         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 8           | 1.0                   | 283                     | 255  | 113   | 1               |
| TAJW476*010#NJ | W         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 6           | 1.4                   | 254                     | 228  | 101   | 1               |
| TAJY476*010#NJ | Y         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 6           | 0.5                   | 500                     | 450  | 200   | 1 <sup>1)</sup> |
| TAJB686*010#NJ | B         | 68               | 10                | 85                     | 7                    | 125                       | 6.8           | 8           | 1.4                   | 246                     | 222  | 99    | 1               |
| TAJC686*010#NJ | C         | 68               | 10                | 85                     | 7                    | 125                       | 6.8           | 6           | 1.3                   | 291                     | 262  | 116   | 1               |
| TAJD686*010#NJ | D         | 68               | 10                | 85                     | 7                    | 125                       | 6.8           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJW686*010#NJ | W         | 68               | 10                | 85                     | 7                    | 125                       | 6.8           | 6           | 1.2                   | 274                     | 246  | 110   | 1               |
| TAJY686*010#NJ | Y         | 68               | 10                | 85                     | 7                    | 125                       | 6.8           | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJB107*010#NJ | B         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 8           | 1.4                   | 246                     | 222  | 99    | 1               |
| TAJC107*010#NJ | C         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 8           | 1.2                   | 303                     | 272  | 121   | 1               |
| TAJD107*010#NJ | D         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE107*010#NJ | E         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJW107*010#NJ | W         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 6           | 0.4                   | 474                     | 427  | 190   | 1               |
| TAJX107*010#NJ | X         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 8           | 0.9                   | 333                     | 300  | 133   | 1 <sup>1)</sup> |
| TAJY107*010#NJ | Y         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJC157*010#NJ | C         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 8           | 0.9                   | 350                     | 315  | 140   | 1               |
| TAJD157*010#NJ | D         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 8           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE157*010#NJ | E         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 8           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJF157*010#NJ | F         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 10          | 0.3                   | 577                     | 520  | 231   | 1               |
| TAJX157*010#NJ | X         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 6           | 0.3                   | 577                     | 520  | 231   | 1 <sup>1)</sup> |
| TAJY157*010#NJ | Y         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 6           | 1.2                   | 323                     | 290  | 129   | 1 <sup>1)</sup> |
| TAJC227*010#NJ | C         | 220              | 10                | 85                     | 7                    | 125                       | 22            | 16          | 0.5                   | 469                     | 422  | 188   | 1               |
| TAJD227*010#NJ | D         | 220              | 10                | 85                     | 7                    | 125                       | 22            | 8           | 0.5                   | 548                     | 493  | 219   | 1 <sup>1)</sup> |
| TAJE227*010#NJ | E         | 220              | 10                | 85                     | 7                    | 125                       | 22            | 8           | 0.5                   | 574                     | 517  | 230   | 1 <sup>1)</sup> |
| TAJY227*010#NJ | Y         | 220              | 10                | 85                     | 7                    | 125                       | 22            | 10          | 0.5                   | 500                     | 450  | 200   | 1 <sup>1)</sup> |
| TAJD337*010#NJ | D         | 330              | 10                | 85                     | 7                    | 125                       | 33            | 8           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number           | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|-----------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                       |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| TAJE337*010#NJ        | E         | 330              | 10                | 85                     | 7                    | 125                       | 33            | 8           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJV337*010#NJ        | V         | 330              | 10                | 85                     | 7                    | 125                       | 33            | 10          | 0.9                   | 527                     | 474  | 211   | 1 <sup>1)</sup> |
| TAJE477*010#NJ        | E         | 470              | 10                | 85                     | 7                    | 125                       | 47            | 10          | 0.5                   | 574                     | 517  | 230   | 1 <sup>1)</sup> |
| TAJU477*010RNJ        | U         | 470              | 10                | 85                     | 7                    | 125                       | 47            | 12          | 0.5                   | 574                     | 517  | 230   | 1 <sup>1)</sup> |
| TAJV477*010#NJ        | V         | 470              | 10                | 85                     | 7                    | 125                       | 47            | 10          | 0.5                   | 707                     | 636  | 283   | 1 <sup>1)</sup> |
| TAJE687M010#NJV       | E         | 680              | 10                | 85                     | 7                    | 125                       | 68            | 18          | 0.4                   | 642                     | 578  | 257   | 3               |
| TAJV687M010#NJV       | V         | 680              | 10                | 85                     | 7                    | 125                       | 68            | 18          | 0.4                   | 791                     | 712  | 316   | 3               |
| <b>16 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJR684*016#NJ        | R         | 0.68             | 16                | 85                     | 10                   | 125                       | 0.5           | 4           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS684*016#NJ        | S         | 0.68             | 16                | 85                     | 10                   | 125                       | 0.5           | 4           | 25                    | 51                      | 46   | 20    | 1               |
| TAJA105*016#NJ        | A         | 1                | 16                | 85                     | 10                   | 125                       | 0.5           | 4           | 11                    | 83                      | 74   | 33    | 1               |
| TAJR105*016#NJ        | R         | 1                | 16                | 85                     | 10                   | 125                       | 0.5           | 4           | 20                    | 52                      | 47   | 21    | 1               |
| TAJS105*016#NJ        | S         | 1                | 16                | 85                     | 10                   | 125                       | 0.5           | 4           | 15                    | 66                      | 59   | 26    | 1               |
| TAJT105*016#NJ        | T         | 1                | 16                | 85                     | 10                   | 125                       | 0.5           | 4           | 5                     | 126                     | 114  | 51    | 1               |
| TAJA155*016#NJ        | A         | 1.5              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 8                     | 97                      | 87   | 39    | 1               |
| TAJR155*016#NJ        | R         | 1.5              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 10                    | 74                      | 67   | 30    | 1               |
| TAJS155*016#NJ        | S         | 1.5              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 12                    | 74                      | 66   | 29    | 1               |
| TAJA225*016#NJ        | A         | 2.2              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 6.5                   | 107                     | 97   | 43    | 1               |
| TAJB225*016#NJ        | B         | 2.2              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 2.3                   | 192                     | 173  | 77    | 1               |
| TAJR225*016#NJ        | R         | 2.2              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 6.5                   | 92                      | 83   | 37    | 1               |
| TAJS225*016#NJ        | S         | 2.2              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 6                     | 104                     | 94   | 42    | 1               |
| TAJT225*016#NJ        | T         | 2.2              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 6.5                   | 111                     | 100  | 44    | 1               |
| TAJA335*016#NJ        | A         | 3.3              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 5                     | 122                     | 110  | 49    | 1               |
| TAJB335*016#NJ        | B         | 3.3              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 4.5                   | 137                     | 124  | 55    | 1               |
| TAJR335*016#NJ        | R         | 3.3              | 16                | 85                     | 10                   | 125                       | 0.5           | 8           | 5                     | 105                     | 94   | 42    | 1               |
| TAJS335*016#NJ        | S         | 3.3              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 5                     | 114                     | 103  | 46    | 1               |
| TAJT335*016#NJ        | T         | 3.3              | 16                | 85                     | 10                   | 125                       | 0.5           | 6           | 5                     | 126                     | 114  | 51    | 1               |
| TAJA475*016#NJ        | A         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 6           | 4                     | 137                     | 123  | 55    | 1               |
| TAJB475*016#NJ        | B         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 6           | 3.5                   | 156                     | 140  | 62    | 1               |
| TAJK475*016#NJ        | K         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 6           | 3.1                   | 145                     | 130  | 58    | 1               |
| TAJP475*016#NJ        | P         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 8           | 5                     | 110                     | 99   | 44    | 1               |
| TAJS475*016#NJ        | S         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 8           | 4                     | 127                     | 115  | 51    | 1               |
| TAJT475*016#NJ        | T         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 6           | 3.1                   | 161                     | 145  | 64    | 1               |
| TAJA685*016#NJ        | A         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 6           | 3.5                   | 146                     | 132  | 59    | 1               |
| TAJB685*016#NJ        | B         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 6           | 2.5                   | 184                     | 166  | 74    | 1               |
| TAJC685*016#NJ        | C         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 6           | 2.5                   | 210                     | 189  | 84    | 1               |
| TAJS685*016#NJ        | S         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 8           | 2.4                   | 165                     | 148  | 66    | 1               |
| TAJT685*016#NJ        | T         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 6           | 3.5                   | 151                     | 136  | 60    | 1               |
| TAJA106*016#NJ        | A         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 6           | 3                     | 158                     | 142  | 63    | 1               |
| TAJB106*016#NJ        | B         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 6           | 2.8                   | 174                     | 157  | 70    | 1               |
| TAJC106*016#NJ        | C         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 6           | 2                     | 235                     | 211  | 94    | 1               |
| TAJT106*016#NJ        | T         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 8           | 2.2                   | 191                     | 172  | 76    | 1               |
| TAJW106*016#NJ        | W         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 6           | 2                     | 212                     | 191  | 85    | 1               |
| TAJA156*016#NJ        | A         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6           | 2                     | 194                     | 174  | 77    | 1               |
| TAJB156*016#NJ        | B         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6           | 2.5                   | 184                     | 166  | 74    | 1               |
| TAJC156*016#NJ        | C         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6           | 1.8                   | 247                     | 222  | 99    | 1               |
| TAJT156M016#NJ        | T         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6           | 2                     | 200                     | 180  | 80    | 1               |
| TAJW156*016#NJ        | W         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6           | 0.7                   | 359                     | 323  | 143   | 1               |
| TAJA226M016#NJ        | A         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 10          | 2.3                   | 181                     | 163  | 72    | 1               |
| TAJB226*016#NJ        | B         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 6           | 2.3                   | 192                     | 173  | 77    | 1               |
| TAJC226*016#NJ        | C         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 6           | 1                     | 332                     | 298  | 133   | 1               |
| TAJD226*016#NJ        | D         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 6           | 1.1                   | 369                     | 332  | 148   | 1 <sup>1)</sup> |
| TAJW226*016#NJ        | W         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 6           | 1.6                   | 237                     | 213  | 95    | 1               |
| TAJB336*016#NJ        | B         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 8           | 2.1                   | 201                     | 181  | 80    | 1               |
| TAJC336*016#NJ        | C         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6           | 1.5                   | 271                     | 244  | 108   | 1               |
| TAJD336*016#NJ        | D         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJW336*016#NJ        | W         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6           | 1.5                   | 245                     | 220  | 98    | 1               |
| TAJY336*016#NJ        | Y         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJC476*016#NJ        | C         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6           | 0.5                   | 469                     | 422  | 188   | 1               |
| TAJD476*016#NJ        | D         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJW476*016#NJ        | W         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6           | 0.4                   | 474                     | 427  | 190   | 1               |
| TAJX476*016#NJ        | X         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6           | 0.75                  | 365                     | 329  | 146   | 1 <sup>1)</sup> |
| TAJY476*016#NJ        | Y         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6           | 0.7                   | 423                     | 380  | 169   | 1 <sup>1)</sup> |
| TAJC686*016#NJ        | C         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 6           | 1.3                   | 291                     | 262  | 116   | 1               |
| TAJD686*016#NJ        | D         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJF686*016#NJ        | F         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 10          | 0.4                   | 500                     | 450  | 200   | 1               |
| TAJX686*016#NJ        | X         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 8           | 0.6                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJY686*016#NJ        | Y         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJC107*016#NJ        | C         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 8           | 1                     | 332                     | 298  | 133   | 1               |
| TAJD107*016#NJ        | D         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 6           | 0.6                   | 500                     | 450  | 200   | 1 <sup>1)</sup> |

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number           | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|-----------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                       |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| TAJE107*016#NJ        | E         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJF107M016#NJ        | F         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 10          | 0.4                   | 500                     | 450  | 200   | 1               |
| TAJY107*016#NJ        | Y         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 8           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJD157*016#NJ        | D         | 150              | 16                | 85                     | 10                   | 125                       | 24            | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE157*016#NJ        | E         | 150              | 16                | 85                     | 10                   | 125                       | 24            | 8           | 0.3                   | 742                     | 667  | 297   | 1 <sup>1)</sup> |
| TAJV157*016#NJ        | V         | 150              | 16                | 85                     | 10                   | 125                       | 24            | 8           | 0.5                   | 707                     | 636  | 283   | 1 <sup>1)</sup> |
| TAJY157M016#NJ        | Y         | 150              | 16                | 85                     | 10                   | 125                       | 24            | 15          | 0.3                   | 645                     | 581  | 258   | 1 <sup>1)</sup> |
| TAJD227M016#NJ        | D         | 220              | 16                | 85                     | 10                   | 125                       | 35.2          | 10          | 0.5                   | 548                     | 493  | 219   | 3               |
| TAJE227*016#NJ        | E         | 220              | 16                | 85                     | 10                   | 125                       | 35.2          | 10          | 0.5                   | 574                     | 517  | 230   | 1 <sup>1)</sup> |
| TAJV227*016#NJ        | V         | 220              | 16                | 85                     | 10                   | 125                       | 35.2          | 8           | 0.9                   | 527                     | 474  | 211   | 1 <sup>1)</sup> |
| TAJE337M016#NJ        | E         | 330              | 16                | 85                     | 10                   | 125                       | 52.8          | 30          | 0.4                   | 642                     | 578  | 257   | 1 <sup>1)</sup> |
| <b>20 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJR104*020#NJ        | R         | 0.1              | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS104*020#NJ        | S         | 0.1              | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 51                      | 46   | 20    | 1               |
| TAJR154*020#NJ        | R         | 0.15             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS154*020#NJ        | S         | 0.15             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 51                      | 46   | 20    | 1               |
| TAJR224*020#NJ        | R         | 0.22             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS224*020#NJ        | S         | 0.22             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 51                      | 46   | 20    | 1               |
| TAJR334*020#NJ        | R         | 0.33             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS334*020#NJ        | S         | 0.33             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 51                      | 46   | 20    | 1               |
| TAJR474*020#NJ        | R         | 0.47             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 47                      | 42   | 19    | 1               |
| TAJS474*020#NJ        | S         | 0.47             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 51                      | 46   | 20    | 1               |
| TAJR684*020#NJ        | R         | 0.68             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 20                    | 52                      | 47   | 21    | 1               |
| TAJS684*020#NJ        | S         | 0.68             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 25                    | 51                      | 46   | 20    | 1               |
| TAJT684*020#NJ        | T         | 0.68             | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 15                    | 73                      | 66   | 29    | 1               |
| TAJA105*020#NJ        | A         | 1                | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 9                     | 91                      | 82   | 37    | 1               |
| TAJR105*020#NJ        | R         | 1                | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 20                    | 52                      | 47   | 21    | 1               |
| TAJS105*020#NJ        | S         | 1                | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 12                    | 74                      | 66   | 29    | 1               |
| TAJT105*020#NJ        | T         | 1                | 20                | 85                     | 13                   | 125                       | 0.5           | 4           | 9                     | 94                      | 85   | 38    | 1               |
| TAJA155*020#NJ        | A         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 6.5                   | 107                     | 97   | 43    | 1               |
| TAJP155*020#NJ        | P         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 9.6                   | 79                      | 71   | 32    | 1               |
| TAJR155*020#NJ        | R         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 9.6                   | 76                      | 68   | 30    | 1               |
| TAJS155*020#NJ        | S         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 5.4                   | 110                     | 99   | 44    | 1               |
| TAJT155*020#NJ        | T         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 6.5                   | 111                     | 100  | 44    | 1               |
| TAJA225*020#NJ        | A         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 5.3                   | 119                     | 107  | 48    | 1               |
| TAJB225*020#NJ        | B         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 3.5                   | 156                     | 140  | 62    | 1               |
| TAJP225*020#NJ        | P         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 8.3                   | 85                      | 77   | 34    | 1               |
| TAJR225*020#NJ        | R         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 6                     | 96                      | 86   | 38    | 1               |
| TAJS225*020#NJ        | S         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 4.5                   | 120                     | 108  | 48    | 1               |
| TAJT225*020#NJ        | T         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6           | 6                     | 115                     | 104  | 46    | 1               |
| TAJA335*020#NJ        | A         | 3.3              | 20                | 85                     | 13                   | 125                       | 0.7           | 6           | 4.5                   | 129                     | 116  | 52    | 1               |
| TAJB335*020#NJ        | B         | 3.3              | 20                | 85                     | 13                   | 125                       | 0.7           | 6           | 3                     | 168                     | 151  | 67    | 1               |
| TAJT335*020#NJ        | T         | 3.3              | 20                | 85                     | 13                   | 125                       | 0.7           | 6           | 3                     | 163                     | 147  | 65    | 1               |
| TAJA475*020#NJ        | A         | 4.7              | 20                | 85                     | 13                   | 125                       | 0.9           | 6           | 4                     | 137                     | 123  | 55    | 1               |
| TAJB475*020#NJ        | B         | 4.7              | 20                | 85                     | 13                   | 125                       | 0.9           | 6           | 3                     | 168                     | 151  | 67    | 1               |
| TAJC475*020#NJ        | C         | 4.7              | 20                | 85                     | 13                   | 125                       | 0.9           | 6           | 2.8                   | 198                     | 178  | 79    | 1               |
| TAJT475*020#NJ        | T         | 4.7              | 20                | 85                     | 13                   | 125                       | 0.9           | 6           | 3.1                   | 161                     | 145  | 64    | 1               |
| TAJA685*020#NJ        | A         | 6.8              | 20                | 85                     | 13                   | 125                       | 1.4           | 6           | 2.4                   | 177                     | 159  | 71    | 1               |
| TAJB685*020#NJ        | B         | 6.8              | 20                | 85                     | 13                   | 125                       | 1.4           | 6           | 2.5                   | 184                     | 166  | 74    | 1               |
| TAJC685*020#NJ        | C         | 6.8              | 20                | 85                     | 13                   | 125                       | 1.4           | 6           | 2                     | 235                     | 211  | 94    | 1               |
| TAJT685*020#NJ        | T         | 6.8              | 20                | 85                     | 13                   | 125                       | 1.4           | 6           | 2.6                   | 175                     | 158  | 70    | 1               |
| TAJB106*020#NJ        | B         | 10               | 20                | 85                     | 13                   | 125                       | 2             | 6           | 2.1                   | 201                     | 181  | 80    | 1               |
| TAJC106*020#NJ        | C         | 10               | 20                | 85                     | 13                   | 125                       | 2             | 6           | 1.2                   | 303                     | 272  | 121   | 1               |
| TAJW106*020#NJ        | W         | 10               | 20                | 85                     | 13                   | 125                       | 2             | 6           | 1.9                   | 218                     | 196  | 87    | 1               |
| TAJB156*020#NJ        | B         | 15               | 20                | 85                     | 13                   | 125                       | 3             | 6           | 2                     | 206                     | 186  | 82    | 1               |
| TAJC156*020#NJ        | C         | 15               | 20                | 85                     | 13                   | 125                       | 3             | 6           | 1.7                   | 254                     | 229  | 102   | 1               |
| TAJD156*020#NJ        | D         | 15               | 20                | 85                     | 13                   | 125                       | 3             | 6           | 1.1                   | 369                     | 332  | 148   | 1 <sup>1)</sup> |
| TAJW156*020#NJ        | W         | 15               | 20                | 85                     | 13                   | 125                       | 3             | 6           | 1.7                   | 230                     | 207  | 92    | 1               |
| TAJB226*020#NJ        | B         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6           | 1.8                   | 217                     | 196  | 87    | 1               |
| TAJC226*020#NJ        | C         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6           | 1.6                   | 262                     | 236  | 105   | 1               |
| TAJD226*020#NJ        | D         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJW226*020#NJ        | W         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6           | 1.6                   | 237                     | 213  | 95    | 1               |
| TAJY226*020#NJ        | Y         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJC336*020#NJ        | C         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6           | 1.5                   | 271                     | 244  | 108   | 1               |
| TAJD336*020#NJ        | D         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJX336*020#NJ        | X         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6           | 0.5                   | 447                     | 402  | 179   | 1 <sup>1)</sup> |
| TAJY336*020#NJ        | Y         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6           | 0.6                   | 456                     | 411  | 183   | 1 <sup>1)</sup> |
| TAJC476*020#NJ        | C         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6           | 0.5                   | 469                     | 422  | 188   | 1               |
| TAJD476*020#NJ        | D         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE476*020#NJ        | E         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number           | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|-----------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                       |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| TAJX476*020#NJ        | X         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6           | 0.4                   | 500                     | 450  | 200   | 1 <sup>1)</sup> |
| TAJY476*020#NJ        | Y         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJX686*020#NJ        | C         | 68               | 20                | 85                     | 13                   | 125                       | 13.6          | 8           | 0.5                   | 469                     | 422  | 188   | 1               |
| TAJD686*020#NJ        | D         | 68               | 20                | 85                     | 13                   | 125                       | 13.6          | 6           | 0.4                   | 612                     | 551  | 245   | 1 <sup>1)</sup> |
| TAJE686*020#NJ        | E         | 68               | 20                | 85                     | 13                   | 125                       | 13.6          | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJY686*020#NJ        | Y         | 68               | 20                | 85                     | 13                   | 125                       | 13.6          | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJD107*020#NJ        | D         | 100              | 20                | 85                     | 13                   | 125                       | 20            | 6           | 0.5                   | 548                     | 493  | 219   | 1 <sup>1)</sup> |
| TAJE107*020#NJ        | E         | 100              | 20                | 85                     | 13                   | 125                       | 20            | 6           | 0.4                   | 642                     | 578  | 257   | 1 <sup>1)</sup> |
| TAJV107*020#NJ        | V         | 100              | 20                | 85                     | 13                   | 125                       | 20            | 6           | 0.9                   | 527                     | 474  | 211   | 1 <sup>1)</sup> |
| TAJE157*020#NJ        | E         | 150              | 20                | 85                     | 13                   | 125                       | 30            | 8           | 0.3                   | 742                     | 667  | 297   | 1 <sup>1)</sup> |
| TAJV157*020#NJ        | V         | 150              | 20                | 85                     | 13                   | 125                       | 30            | 8           | 0.3                   | 913                     | 822  | 365   | 1 <sup>1)</sup> |
| <b>25 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJR154*025#NJ        | R         | 0.15             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 24                    | 48                      | 43   | 19    | 1               |
| TAJR224*025#NJ        | R         | 0.22             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 21                    | 51                      | 46   | 20    | 1               |
| TAJR334*025#NJ        | R         | 0.33             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 17                    | 57                      | 51   | 23    | 1               |
| TAJA474*025#NJ        | A         | 0.47             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 14                    | 73                      | 66   | 29    | 1               |
| TAJR474*025#NJ        | R         | 0.47             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 15                    | 61                      | 54   | 24    | 1               |
| TAJS474*025#NJ        | S         | 0.47             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 9                     | 85                      | 76   | 34    | 1               |
| TAJA684*025#NJ        | A         | 0.68             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 10                    | 87                      | 78   | 35    | 1               |
| TAJR684*025#NJ        | R         | 0.68             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 13                    | 65                      | 59   | 26    | 1               |
| TAJS684*025#NJ        | S         | 0.68             | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 8                     | 90                      | 81   | 36    | 1               |
| TAJA105*025#NJ        | A         | 1                | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 8                     | 97                      | 87   | 39    | 1               |
| TAJP105*025#NJ        | P         | 1                | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 11                    | 74                      | 66   | 30    | 1               |
| TAJR105*025#NJ        | R         | 1                | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 8                     | 83                      | 75   | 33    | 1               |
| TAJS105*025#NJ        | S         | 1                | 25                | 85                     | 17                   | 125                       | 0.5           | 4           | 8                     | 90                      | 81   | 36    | 1               |
| TAJA155*025#NJ        | A         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6           | 7.5                   | 100                     | 90   | 40    | 1               |
| TAJB155*025#NJ        | B         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6           | 5                     | 130                     | 117  | 52    | 1               |
| TAJP155*025#NJ        | P         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6           | 9.6                   | 79                      | 71   | 32    | 1               |
| TAJS155*025#NJ        | S         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6           | 5.4                   | 110                     | 99   | 44    | 1               |
| TAJT155*025#NJ        | T         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6           | 5                     | 126                     | 114  | 51    | 1               |
| TAJA225*025#NJ        | A         | 2.2              | 25                | 85                     | 17                   | 125                       | 0.6           | 6           | 7                     | 104                     | 93   | 41    | 1               |
| TAJB225*025#NJ        | B         | 2.2              | 25                | 85                     | 17                   | 125                       | 0.6           | 6           | 4.5                   | 137                     | 124  | 55    | 1               |
| TAJT225*025#NJ        | T         | 2.2              | 25                | 85                     | 17                   | 125                       | 0.6           | 6           | 4.5                   | 133                     | 120  | 53    | 1               |
| TAJA335*025#NJ        | A         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6           | 3.7                   | 142                     | 128  | 57    | 1               |
| TAJB335*025#NJ        | B         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6           | 3.5                   | 156                     | 140  | 62    | 1               |
| TAJC335*025#NJ        | C         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6           | 2.8                   | 198                     | 178  | 79    | 1               |
| TAJT335*025#NJ        | T         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6           | 3.5                   | 151                     | 136  | 60    | 1               |
| TAJW335*025#NJ        | W         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6           | 1.6                   | 237                     | 213  | 95    | 1               |
| TAJA475*025#NJ        | A         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6           | 3.1                   | 156                     | 140  | 62    | 1               |
| TAJB475*025#NJ        | B         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6           | 1.5                   | 238                     | 214  | 95    | 1               |
| TAJC475*025#NJ        | C         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6           | 2.4                   | 214                     | 193  | 86    | 1               |
| TAJT475*025#NJ        | T         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6           | 3.1                   | 161                     | 145  | 64    | 1               |
| TAJW475*025#NJ        | W         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6           | 1.2                   | 274                     | 246  | 110   | 1               |
| TAJB685*025#NJ        | B         | 6.8              | 25                | 85                     | 17                   | 125                       | 1.7           | 6           | 2.8                   | 174                     | 157  | 70    | 1               |
| TAJC685*025#NJ        | C         | 6.8              | 25                | 85                     | 17                   | 125                       | 1.7           | 6           | 2                     | 235                     | 211  | 94    | 1               |
| TAJW685*025#NJ        | W         | 6.8              | 25                | 85                     | 17                   | 125                       | 1.7           | 6           | 2                     | 212                     | 191  | 85    | 1               |
| TAJB106*025#NJ        | B         | 10               | 25                | 85                     | 17                   | 125                       | 2.5           | 6           | 2.5                   | 184                     | 166  | 74    | 1               |
| TAJC106*025#NJ        | C         | 10               | 25                | 85                     | 17                   | 125                       | 2.5           | 6           | 1.8                   | 247                     | 222  | 99    | 1               |
| TAJD106*025#NJ        | D         | 10               | 25                | 85                     | 17                   | 125                       | 2.5           | 6           | 1.2                   | 354                     | 318  | 141   | 1 <sup>1)</sup> |
| TAJW106*025#NJ        | W         | 10               | 25                | 85                     | 17                   | 125                       | 2.5           | 6           | 1.8                   | 224                     | 201  | 89    | 1               |
| TAJC156*025#NJ        | C         | 15               | 25                | 85                     | 17                   | 125                       | 3.8           | 6           | 1.6                   | 262                     | 236  | 105   | 1               |
| TAJD156*025#NJ        | D         | 15               | 25                | 85                     | 17                   | 125                       | 3.8           | 6           | 1                     | 387                     | 349  | 155   | 1 <sup>1)</sup> |
| TAJY156*025#NJ        | Y         | 15               | 25                | 85                     | 17                   | 125                       | 3.8           | 6           | 1                     | 354                     | 318  | 141   | 1 <sup>1)</sup> |
| TAJC226*025#NJ        | C         | 22               | 25                | 85                     | 17                   | 125                       | 5.5           | 6           | 1.4                   | 280                     | 252  | 112   | 1               |
| TAJD226*025#NJ        | D         | 22               | 25                | 85                     | 17                   | 125                       | 5.5           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJF226*025#NJ        | F         | 22               | 25                | 85                     | 17                   | 125                       | 5.5           | 6           | 1                     | 316                     | 285  | 126   | 1               |
| TAJY226*025#NJ        | Y         | 22               | 25                | 85                     | 17                   | 125                       | 5.5           | 6           | 0.8                   | 395                     | 356  | 158   | 1 <sup>1)</sup> |
| TAJC336*025#NJ        | C         | 33               | 25                | 85                     | 17                   | 125                       | 8.3           | 6           | 0.9                   | 350                     | 315  | 140   | 1               |
| TAJD336*025#NJ        | D         | 33               | 25                | 85                     | 17                   | 125                       | 8.3           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE336*025#NJ        | E         | 33               | 25                | 85                     | 17                   | 125                       | 8.3           | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJF336*025#NJ        | F         | 33               | 25                | 85                     | 17                   | 125                       | 8.3           | 6           | 0.9                   | 333                     | 300  | 133   | 1               |
| TAJY336*025#NJ        | Y         | 33               | 25                | 85                     | 17                   | 125                       | 8.3           | 6           | 0.5                   | 500                     | 450  | 200   | 1 <sup>1)</sup> |
| TAJD476*025#NJ        | D         | 47               | 25                | 85                     | 17                   | 125                       | 11.8          | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE476*025#NJ        | E         | 47               | 25                | 85                     | 17                   | 125                       | 11.8          | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJY476*025#NJ        | Y         | 47               | 25                | 85                     | 17                   | 125                       | 11.8          | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJD686*025#NJ        | D         | 68               | 25                | 85                     | 17                   | 125                       | 17            | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE686*025#NJ        | E         | 68               | 25                | 85                     | 17                   | 125                       | 17            | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number           | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|-----------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                       |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| TAJV686*025#NJ        | V         | 68               | 25                | 85                     | 17                   | 125                       | 17            | 6           | 0.9                   | 527                     | 474  | 211   | 1 <sup>1)</sup> |
| TAJE107*025#NJ        | E         | 100              | 25                | 85                     | 17                   | 125                       | 25            | 10          | 0.3                   | 742                     | 667  | 297   | 1 <sup>1)</sup> |
| TAJV107*025#NJ        | V         | 100              | 25                | 85                     | 17                   | 125                       | 25            | 8           | 0.4                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |
| TAJV157M025#NJ        | V         | 150              | 25                | 85                     | 17                   | 125                       | 37.5          | 10          | 0.4                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |
| <b>35 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJA104*035#NJ        | A         | 0.1              | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 24                    | 56                      | 50   | 22    | 1               |
| TAJR104*035#NJ        | R         | 0.1              | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 29                    | 44                      | 39   | 17    | 1               |
| TAJS104*035#NJ        | S         | 0.1              | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 24                    | 52                      | 47   | 21    | 1               |
| TAJA154*035#NJ        | A         | 0.15             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 21                    | 60                      | 54   | 24    | 1               |
| TAJR154*035#NJ        | R         | 0.15             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 24                    | 48                      | 43   | 19    | 1               |
| TAJS154*035#NJ        | S         | 0.15             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 21                    | 56                      | 50   | 22    | 1               |
| TAJA224*035#NJ        | A         | 0.22             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 18                    | 65                      | 58   | 26    | 1               |
| TAJR224*035#NJ        | R         | 0.22             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 21                    | 51                      | 46   | 20    | 1               |
| TAJS224*035#NJ        | S         | 0.22             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 18                    | 60                      | 54   | 24    | 1               |
| TAJA334*035#NJ        | A         | 0.33             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 15                    | 71                      | 64   | 28    | 1               |
| TAJR334*035#NJ        | R         | 0.33             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 17                    | 57                      | 51   | 23    | 1               |
| TAJS334*035#NJ        | S         | 0.33             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 15                    | 66                      | 59   | 26    | 1               |
| TAJA474*035#NJ        | A         | 0.47             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 12                    | 79                      | 71   | 32    | 1               |
| TAJB474*035#NJ        | B         | 0.47             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 10                    | 92                      | 83   | 37    | 1               |
| TAJR474*035#NJ        | R         | 0.47             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 15                    | 61                      | 54   | 24    | 1               |
| TAJS474*035#NJ        | S         | 0.47             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 12                    | 74                      | 66   | 29    | 1               |
| TAJT474*035#NJ        | T         | 0.47             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 10                    | 89                      | 80   | 36    | 1               |
| TAJA684*035#NJ        | A         | 0.68             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 8                     | 97                      | 87   | 39    | 1               |
| TAJB684*035#NJ        | B         | 0.68             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 8                     | 103                     | 93   | 41    | 1               |
| TAJP684*035#NJ        | P         | 0.68             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 13                    | 68                      | 61   | 27    | 1               |
| TAJS684*035#NJ        | S         | 0.68             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 8                     | 90                      | 81   | 36    | 1               |
| TAJT684*035#NJ        | T         | 0.68             | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 8                     | 100                     | 90   | 40    | 1               |
| TAJA105*035#NJ        | A         | 1                | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 7.5                   | 100                     | 90   | 40    | 1               |
| TAJB105*035#NJ        | B         | 1                | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 6.5                   | 114                     | 103  | 46    | 1               |
| TAJP105*035#NJ        | P         | 1                | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 11                    | 74                      | 66   | 30    | 1               |
| TAJS105*035#NJ        | S         | 1                | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 7.5                   | 93                      | 84   | 37    | 1               |
| TAJT105*035#NJ        | T         | 1                | 35                | 85                     | 23                   | 125                       | 0.5           | 4           | 6.5                   | 111                     | 100  | 44    | 1               |
| TAJA155*035#NJ        | A         | 1.5              | 35                | 85                     | 23                   | 125                       | 0.5           | 6           | 7.5                   | 100                     | 90   | 40    | 1               |
| TAJB155*035#NJ        | B         | 1.5              | 35                | 85                     | 23                   | 125                       | 0.5           | 6           | 5.2                   | 128                     | 115  | 51    | 1               |
| TAJC155*035#NJ        | C         | 1.5              | 35                | 85                     | 23                   | 125                       | 0.5           | 6           | 4.5                   | 156                     | 141  | 63    | 1               |
| TAJT155*035#NJ        | T         | 1.5              | 35                | 85                     | 23                   | 125                       | 0.5           | 6           | 5.2                   | 124                     | 112  | 50    | 1               |
| TAJA225*035#NJ        | A         | 2.2              | 35                | 85                     | 23                   | 125                       | 0.8           | 6           | 4.5                   | 129                     | 116  | 52    | 1               |
| TAJB225*035#NJ        | B         | 2.2              | 35                | 85                     | 23                   | 125                       | 0.8           | 6           | 4.2                   | 142                     | 128  | 57    | 1               |
| TAJC225*035#NJ        | C         | 2.2              | 35                | 85                     | 23                   | 125                       | 0.8           | 6           | 3.5                   | 177                     | 160  | 71    | 1               |
| TAJT225*035#NJ        | T         | 2.2              | 35                | 85                     | 23                   | 125                       | 0.8           | 6           | 4.2                   | 138                     | 124  | 55    | 1               |
| TAJB335*035#NJ        | B         | 3.3              | 35                | 85                     | 23                   | 125                       | 1.2           | 6           | 3.5                   | 156                     | 140  | 62    | 1               |
| TAJC335*035#NJ        | C         | 3.3              | 35                | 85                     | 23                   | 125                       | 1.2           | 6           | 2.5                   | 210                     | 189  | 84    | 1               |
| TAJW335*035#NJ        | W         | 3.3              | 35                | 85                     | 23                   | 125                       | 1.2           | 6           | 1.6                   | 237                     | 213  | 95    | 1               |
| TAJB475*035#NJ        | B         | 4.7              | 35                | 85                     | 23                   | 125                       | 1.6           | 6           | 3.1                   | 166                     | 149  | 66    | 1               |
| TAJC475*035#NJ        | C         | 4.7              | 35                | 85                     | 23                   | 125                       | 1.6           | 6           | 2.2                   | 224                     | 201  | 89    | 1               |
| TAJD475*035#NJ        | D         | 4.7              | 35                | 85                     | 23                   | 125                       | 1.6           | 6           | 1.5                   | 316                     | 285  | 126   | 1 <sup>1)</sup> |
| TAJW475*035#NJ        | W         | 4.7              | 35                | 85                     | 23                   | 125                       | 1.6           | 6           | 2.2                   | 202                     | 182  | 81    | 1               |
| TAJC685*035#NJ        | C         | 6.8              | 35                | 85                     | 23                   | 125                       | 2.4           | 6           | 1.8                   | 247                     | 222  | 99    | 1               |
| TAJD685*035#NJ        | D         | 6.8              | 35                | 85                     | 23                   | 125                       | 2.4           | 6           | 1.3                   | 340                     | 306  | 136   | 1 <sup>1)</sup> |
| TAJV685*035#NJ        | Y         | 6.8              | 35                | 85                     | 23                   | 125                       | 2.3           | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJC106*035#NJ        | C         | 10               | 35                | 85                     | 23                   | 125                       | 3.5           | 6           | 1.6                   | 262                     | 236  | 105   | 1               |
| TAJD106*035#NJ        | D         | 10               | 35                | 85                     | 23                   | 125                       | 3.5           | 6           | 1                     | 387                     | 349  | 155   | 1 <sup>1)</sup> |
| TAJE106*035#NJ        | E         | 10               | 35                | 85                     | 23                   | 125                       | 3.5           | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJX106*035#NJ        | X         | 10               | 35                | 85                     | 23                   | 125                       | 3.5           | 6           | 0.7                   | 378                     | 340  | 151   | 1 <sup>1)</sup> |
| TAJY106*035#NJ        | Y         | 10               | 35                | 85                     | 23                   | 125                       | 3.5           | 6           | 1                     | 354                     | 318  | 141   | 1 <sup>1)</sup> |
| TAJC156*035#NJ        | C         | 15               | 35                | 85                     | 23                   | 125                       | 5.3           | 6           | 1.4                   | 280                     | 252  | 112   | 1               |
| TAJD156*035#NJ        | D         | 15               | 35                | 85                     | 23                   | 125                       | 5.3           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJY156*035#NJ        | Y         | 15               | 35                | 85                     | 23                   | 125                       | 5.3           | 6           | 0.6                   | 456                     | 411  | 183   | 1 <sup>1)</sup> |
| TAJD226*035#NJ        | D         | 22               | 35                | 85                     | 23                   | 125                       | 7.7           | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE226*035#NJ        | E         | 22               | 35                | 85                     | 23                   | 125                       | 7.7           | 6           | 0.5                   | 574                     | 517  | 230   | 1 <sup>1)</sup> |
| TAJY226*035#NJ        | Y         | 22               | 35                | 85                     | 23                   | 125                       | 7.7           | 6           | 0.5                   | 500                     | 450  | 200   | 1 <sup>1)</sup> |
| TAJD336*035#NJ        | D         | 33               | 35                | 85                     | 23                   | 125                       | 11.6          | 6           | 0.9                   | 408                     | 367  | 163   | 1 <sup>1)</sup> |
| TAJE336*035#NJ        | E         | 33               | 35                | 85                     | 23                   | 125                       | 11.6          | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJV336*035#NJ        | V         | 33               | 35                | 85                     | 23                   | 125                       | 11.6          | 6           | 0.5                   | 707                     | 636  | 283   | 1 <sup>1)</sup> |
| TAJD476*035#NJ        | D         | 47               | 35                | 85                     | 23                   | 125                       | 16.5          | 6           | 0.9                   | 408                     | 367  | 163   | 3               |
| TAJE476*035#NJ        | E         | 47               | 35                | 85                     | 23                   | 125                       | 16.5          | 6           | 0.9                   | 428                     | 385  | 171   | 1 <sup>1)</sup> |
| TAJV476*035#NJ        | V         | 47               | 35                | 85                     | 23                   | 125                       | 16.5          | 6           | 0.4                   | 791                     | 712  | 316   | 1 <sup>1)</sup> |

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### RATINGS & PART NUMBER REFERENCE

| Part Number    | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | MSL             |
|----------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-----------------|
|                |           |                  |                   |                        |                      |                           |               |             |                       | 25°C                    | 85°C | 125°C |                 |
| TAJV686*035#NJ | V         | 68               | 35                | 85                     | 23                   | 125                       | 23.8          | 6           | 0.5                   | 707                     | 636  | 283   | 1 <sup>1)</sup> |
| 50 Volt @ 85°C |           |                  |                   |                        |                      |                           |               |             |                       |                         |      |       |                 |
| TAJA104*050#NJ | A         | 0.1              | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 22                    | 58                      | 53   | 23    | 1               |
| TAJS104*050#NJ | S         | 0.1              | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 19                    | 58                      | 53   | 23    | 1               |
| TAJA154*050#NJ | A         | 0.15             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 15                    | 71                      | 64   | 28    | 1               |
| TAJB154*050#NJ | B         | 0.15             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 17                    | 71                      | 64   | 28    | 1               |
| TAJS154*050#NJ | S         | 0.15             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 16                    | 64                      | 57   | 25    | 1               |
| TAJA224*050#NJ | A         | 0.22             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 18                    | 65                      | 58   | 26    | 1               |
| TAJB224*050#NJ | B         | 0.22             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 14                    | 78                      | 70   | 31    | 1               |
| TAJP224*050#NJ | P         | 0.22             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 17                    | 59                      | 53   | 24    | 1               |
| TAJR224*050#NJ | R         | 0.22             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 17                    | 57                      | 51   | 23    | 1               |
| TAJS224*050#NJ | S         | 0.22             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 13                    | 71                      | 64   | 28    | 1               |
| TAJA334*050#NJ | A         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 17                    | 66                      | 60   | 27    | 1               |
| TAJB334*050#NJ | B         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 12                    | 84                      | 76   | 34    | 1               |
| TAJP334*050#NJ | P         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 17                    | 59                      | 53   | 24    | 1               |
| TAJR334*050#NJ | R         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 17                    | 57                      | 51   | 23    | 1               |
| TAJS334*050#NJ | S         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 11                    | 77                      | 69   | 31    | 1               |
| TAJT334*050#NJ | T         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 11                    | 85                      | 77   | 34    | 1               |
| TAJA474*050#NJ | A         | 0.47             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 9.5                   | 89                      | 80   | 36    | 1               |
| TAJB474*050#NJ | B         | 0.47             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 9.5                   | 95                      | 85   | 38    | 1               |
| TAJC474*050#NJ | C         | 0.47             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 8                     | 117                     | 106  | 47    | 1               |
| TAJS474*050#NJ | S         | 0.47             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 9.5                   | 83                      | 74   | 33    | 1               |
| TAJT474*050#NJ | T         | 0.47             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 9.5                   | 92                      | 83   | 37    | 1               |
| TAJA684*050#NJ | A         | 0.68             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 7.9                   | 97                      | 88   | 39    | 1               |
| TAJB684*050#NJ | B         | 0.68             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 8                     | 103                     | 93   | 41    | 1               |
| TAJC684*050#NJ | C         | 0.68             | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 7                     | 125                     | 113  | 50    | 1               |
| TAJA105*050#NJ | A         | 1                | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 6.6                   | 107                     | 96   | 43    | 1               |
| TAJB105*050#NJ | B         | 1                | 50                | 85                     | 33                   | 125                       | 0.5           | 6           | 7                     | 110                     | 99   | 44    | 1               |
| TAJC105*050#NJ | C         | 1                | 50                | 85                     | 33                   | 125                       | 0.5           | 4           | 5.5                   | 141                     | 127  | 57    | 1               |
| TAJW105*050#NJ | W         | 1                | 50                | 85                     | 33                   | 125                       | 0.5           | 6           | 4.4                   | 143                     | 129  | 57    | 1               |
| TAJB155*050#NJ | B         | 1.5              | 50                | 85                     | 33                   | 125                       | 0.8           | 8           | 5.4                   | 125                     | 113  | 50    | 1               |
| TAJC155*050#NJ | C         | 1.5              | 50                | 85                     | 33                   | 125                       | 0.8           | 6           | 4.5                   | 156                     | 141  | 63    | 1               |
| TAJD155*050#NJ | D         | 1.5              | 50                | 85                     | 33                   | 125                       | 0.8           | 6           | 4                     | 194                     | 174  | 77    | 1 <sup>1)</sup> |
| TAJW155*050#NJ | W         | 1.5              | 50                | 85                     | 33                   | 125                       | 0.8           | 6           | 3.1                   | 170                     | 153  | 68    | 1               |
| TAJB225*050#NJ | B         | 2.2              | 50                | 85                     | 33                   | 125                       | 1.1           | 8           | 4.5                   | 137                     | 124  | 55    | 1               |
| TAJC225*050#NJ | C         | 2.2              | 50                | 85                     | 33                   | 125                       | 1.1           | 8           | 2.5                   | 210                     | 189  | 84    | 1               |
| TAJD225*050#NJ | D         | 2.2              | 50                | 85                     | 33                   | 125                       | 1.1           | 6           | 2.5                   | 245                     | 220  | 98    | 1 <sup>1)</sup> |
| TAJW225*050#NJ | W         | 2.2              | 50                | 85                     | 33                   | 125                       | 1.1           | 8           | 2.5                   | 190                     | 171  | 76    | 1               |
| TAJC335*050#NJ | C         | 3.3              | 50                | 85                     | 33                   | 125                       | 1.6           | 6           | 2.5                   | 210                     | 189  | 84    | 1               |
| TAJD335*050#NJ | D         | 3.3              | 50                | 85                     | 33                   | 125                       | 1.7           | 6           | 2                     | 274                     | 246  | 110   | 1 <sup>1)</sup> |
| TAJY335*050#NJ | Y         | 3.3              | 50                | 85                     | 33                   | 125                       | 1.7           | 4           | 1.5                   | 289                     | 260  | 115   | 1 <sup>1)</sup> |
| TAJC475*050#NJ | C         | 4.7              | 50                | 85                     | 33                   | 125                       | 2.4           | 6           | 1.4                   | 280                     | 252  | 112   | 1               |
| TAJD475*050#NJ | D         | 4.7              | 50                | 85                     | 33                   | 125                       | 2.4           | 6           | 1.4                   | 327                     | 295  | 131   | 1 <sup>1)</sup> |
| TAJX475*050#NJ | X         | 4.7              | 50                | 85                     | 33                   | 125                       | 2.4           | 6           | 1.0                   | 316                     | 285  | 126   | 3               |
| TAJY475*050#NJ | Y         | 4.7              | 50                | 85                     | 33                   | 125                       | 2.4           | 6           | 1.2                   | 323                     | 290  | 129   | 1 <sup>1)</sup> |
| TAJC685*050#NJ | C         | 6.8              | 50                | 85                     | 33                   | 125                       | 3.4           | 6           | 1                     | 332                     | 298  | 133   | 1               |
| TAJD685*050#NJ | D         | 6.8              | 50                | 85                     | 33                   | 125                       | 3.4           | 6           | 1                     | 387                     | 349  | 155   | 1 <sup>1)</sup> |
| TAJY685*050#NJ | Y         | 6.8              | 50                | 85                     | 33                   | 125                       | 3.4           | 6           | 0.9                   | 373                     | 335  | 149   | 1 <sup>1)</sup> |
| TAJD106*050#NJ | D         | 10               | 50                | 85                     | 33                   | 125                       | 5             | 6           | 0.8                   | 433                     | 390  | 173   | 1 <sup>1)</sup> |
| TAJE106*050#NJ | E         | 10               | 50                | 85                     | 33                   | 125                       | 5             | 6           | 0.8                   | 454                     | 409  | 182   | 1 <sup>1)</sup> |
| TAJV106*050#NJ | V         | 10               | 50                | 85                     | 33                   | 125                       | 5             | 6           | 0.65                  | 620                     | 558  | 248   | 1 <sup>1)</sup> |
| TAJD156*050#NJ | D         | 15               | 50                | 85                     | 33                   | 125                       | 7.5           | 6           | 0.6                   | 500                     | 450  | 200   | 1 <sup>1)</sup> |
| TAJE156*050#NJ | E         | 15               | 50                | 85                     | 33                   | 125                       | 7.5           | 6           | 0.6                   | 524                     | 472  | 210   | 1 <sup>1)</sup> |
| TAJV156*050#NJ | V         | 15               | 50                | 85                     | 33                   | 125                       | 7.5           | 6           | 0.6                   | 645                     | 581  | 258   | 1 <sup>1)</sup> |
| TAJV226*050#NJ | V         | 22               | 50                | 85                     | 33                   | 125                       | 11            | 8           | 0.6                   | 645                     | 581  | 258   | 1 <sup>1)</sup> |

1<sup>1)</sup> – Dry pack option (see How to order) is recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3. Moisture Sensitivity Level (MSL) is defined according to J-STD-020. All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes. For typical weight and composition see page 259.

**NOTE: KYOCERA AVX reserves the right to supply higher voltage ratings or tighter tolerance part in the same case size, to the same reliability standards.**

\*Initial Limit

# TAJ Series

## Standard and Low Profile Tantalum Capacitors



### QUALIFICATION TABLE

| TEST                         | TAJ series (Temperature range -55°C to +125°C)  |               |               |                    |                                    |           |           |           |            |           |
|------------------------------|---|---------------|---------------|--------------------|------------------------------------|-----------|-----------|-----------|------------|-----------|
|                              | Condition   |               |               | Characteristics    |                                    |           |           |           |            |           |
| <b>Endurance</b>             | Apply rated voltage (Ur) at 85°C and / or category voltage (Uc) at 125°C for 2000 hours through a circuit impedance of $\leq 0.1\Omega/V$ . Stabilize at room temperature for 1-2 hours before measuring. |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |   |               |               | DCL                | 1.25 x initial limit               |           |           |           |            |           |
|                              |   |               |               | $\Delta C/C$       | within $\pm 10\%$ of initial value |           |           |           |            |           |
|                              |   |               |               | DF                 | initial limit                      |           |           |           |            |           |
| <b>Humidity</b>              | Store at 65°C and 95% relative humidity for 500 hours, with no applied voltage. Stabilize at room temperature and humidity for 1-2 hours before measuring.  |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |   |               |               | DCL                | 1.5 x initial limit                |           |           |           |            |           |
|                              |   |               |               | $\Delta C/C$       | within $\pm 10\%$ of initial value |           |           |           |            |           |
|                              |   |               |               | DF                 | 1.2 x initial limit                |           |           |           |            |           |
| <b>Temperature Stability</b> | Step  | Temperature°C | Duration(min) |                    |                                    |           |           |           |            |           |
|                              | 1   | +20           | 15            |                    | +20°C                              | -55°C     | +20°C     | +85°C     | +125°C     | +20°C     |
|                              | 2   | -55           | 15            | DCL                | IL*                                | n/a       | IL*       | 10 x IL*  | 12.5 x IL* | IL*       |
|                              | 3   | +20           | 15            | $\Delta C/C$       | n/a                                | +0/-10%   | $\pm 5\%$ | +10/-0%   | +12/-0%    | $\pm 5\%$ |
|                              | 4   | +85           | 15            | DF                 | IL*                                | 1.5 x IL* | IL*       | 1.5 x IL* | 2 x IL*    | IL*       |
|                              | 5   | +125          | 15            |                    |                                    |           |           |           |            |           |
| 6                            | +20   | 15            |               |                    |                                    |           |           |           |            |           |
| <b>Surge Voltage</b>         | Apply 1.3x category voltage (Uc) at 125°C for 1000 cycles of duration 6 min (30 sec charge, 5 min 30 sec discharge) through a charge / discharge resistance of 1000 $\Omega$                              |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |   |               |               | DCL                | initial limit                      |           |           |           |            |           |
|                              |   |               |               | $\Delta C/C$       | within $\pm 5\%$ of initial value  |           |           |           |            |           |
|                              |   |               |               | DF                 | initial limit                      |           |           |           |            |           |
| <b>Mechanical Shock</b>      | MIL-STD-202, Method 213, Condition C  |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |   |               |               | DCL                | initial limit                      |           |           |           |            |           |
|                              |   |               |               | $\Delta C/C$       | within $\pm 5\%$ of initial value  |           |           |           |            |           |
|                              |   |               |               | DF                 | initial limit                      |           |           |           |            |           |
|                              |   |               |               | ESR                | initial limit                      |           |           |           |            |           |
| <b>Vibration</b>             | MIL-STD-202, Method 204, Condition D  |               |               | Visual examination | no visible damage                  |           |           |           |            |           |
|                              |   |               |               | DCL                | initial limit                      |           |           |           |            |           |
|                              |   |               |               | $\Delta C/C$       | within $\pm 5\%$ of initial value  |           |           |           |            |           |
|                              |   |               |               | DF                 | initial limit                      |           |           |           |            |           |
|                              |   |               |               | ESR                | initial limit                      |           |           |           |            |           |

# TAJ Series

## Standard and Low Profile Tantalum Capacitors

### SOLID ELECTROLYTIC CAPACITOR ROADMAP



### FIVE CAPACITOR CONSTRUCTION STYLES



### SERIES LINE UP: CONVENTIONAL SMD MnO<sub>2</sub>



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