



# THE DATASHEET OF 107KXM050M

## Radial Lead Aluminum Electrolytic Capacitors

+105°C Low Impedance



### FEATURES

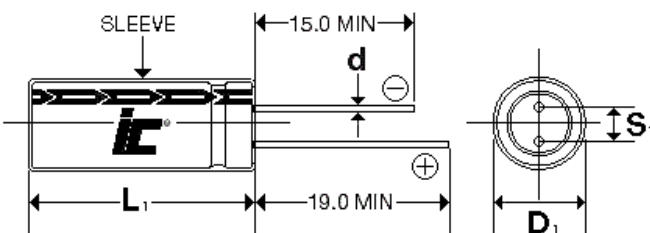
Standardized Case Sizes - High Ripple Current - Multiple Case Sizes

### APPLICATIONS

Bypass - Coupling - Filtering - De-Coupling

| Operating Temperature Range                        |                | -55°C to +105°C                                                                                                             |     |                                  |     |     |     |      |     |  |
|----------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------|-----|-----|-----|------|-----|--|
| Capacitance Tolerance                              |                | +20% at 120 Hz, 20°C                                                                                                        |     |                                  |     |     |     |      |     |  |
| Surge Voltage                                      | WVDC           | 6.3                                                                                                                         | 10  | 16                               | 25  | 35  | 50  | 63   | 100 |  |
|                                                    | SVDC           | 7.9                                                                                                                         | 13  | 20                               | 32  | 44  | 63  | 79   | 125 |  |
| Dissipation Factor                                 | WVDC           | 6.3                                                                                                                         | 10  | 16                               | 25  | 35  | 50  | 63   | 100 |  |
|                                                    | Tan δ          | .22                                                                                                                         | .19 | .16                              | .14 | .12 | .1  | .1   | .1  |  |
|                                                    |                | Add .02 for every 1000uF above 1000uF                                                                                       |     |                                  |     |     |     |      |     |  |
| Leakage Current                                    |                | 2 Minutes                                                                                                                   |     |                                  |     |     |     |      |     |  |
|                                                    |                | .01CV or 3uA, Whichever is greater                                                                                          |     |                                  |     |     |     |      |     |  |
| Low Temperature Stability Impedance Ratio (120 Hz) | WVDC           | 6.3                                                                                                                         | 10  | 16                               | 25  | 35  | 50  | 63   | 100 |  |
|                                                    | -25°C to +20°C | 4                                                                                                                           | 3   | 2                                | 2   | 2   | 2   | 2    | 2   |  |
|                                                    | -40°C to +20°C | 8                                                                                                                           | 6   | 4                                | 3   | 3   | 3   | 3    | 3   |  |
| Load Life                                          |                | 5000 hours at 105°C with rated WVDC and ripple current applied (4000 hrs. for D=10, 3000 hrs. for D=8, 2000 hrs. for D≤6.3) |     |                                  |     |     |     |      |     |  |
|                                                    |                | Capacitance Change                                                                                                          |     | ≤25% of initial measured value   |     |     |     |      |     |  |
|                                                    |                | Dissipation Factor                                                                                                          |     | ≤200% of maximum specified value |     |     |     |      |     |  |
|                                                    |                | Leakage Current                                                                                                             |     | ≤100% of maximum specified value |     |     |     |      |     |  |
| Shelf Life                                         |                | 1000 hours at 105°C with no voltage applied                                                                                 |     |                                  |     |     |     |      |     |  |
|                                                    |                | Capacitance Change                                                                                                          |     | ≤25% initial measured value      |     |     |     |      |     |  |
|                                                    |                | Dissipation Factor                                                                                                          |     | ≤200% of maximum specified value |     |     |     |      |     |  |
|                                                    |                | Leakage Current                                                                                                             |     | ≤100% of maximum specified value |     |     |     |      |     |  |
| Ripple Current Multipliers                         |                |                                                                                                                             |     | Frequency (Hz)                   |     |     |     |      |     |  |
|                                                    |                | Capacitance                                                                                                                 |     | 50                               | 120 | 1k  | 10k | 100k |     |  |
|                                                    |                | C≤180                                                                                                                       |     | .4                               | .4  | .75 | .9  | 1.0  |     |  |
|                                                    |                | 220<C≤560                                                                                                                   |     | .5                               | .5  | .85 | .94 | 1.0  |     |  |
|                                                    |                | 680<C≤1800                                                                                                                  |     | .6                               | .6  | .87 | .95 | 1.0  |     |  |
|                                                    |                | 2200<C≤3900                                                                                                                 |     | .75                              | .75 | .9  | .95 | 1.0  |     |  |
|                                                    |                | C>4700                                                                                                                      |     | .85                              | .85 | .95 | .98 | 1.0  |     |  |

### Special Order Options



| D | 5   | 6.3 | 8   | 10  | 12.5 | 16  | 18  |
|---|-----|-----|-----|-----|------|-----|-----|
| S | 2.0 | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 |
| d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6  | 0.8 | 0.8 |

L<sub>1</sub>=L+1.5 mm Max. (L<20mm)

L<sub>1</sub>=L+2.0 mm Max. (L>20mm)

D<sub>1</sub>=D+0.5 mm Max.

S<sub>1</sub>=S+0.5 mm

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# KXM

**+105°C, High Voltage Low  
Impedance Long Life, 5000  
hours**

| WVDC | Capacitance<br>(μF) | IC PART NUMBER | Maximum<br>ESR (Ω)<br>120 Hz,<br>+20°C | Impedance<br>Ω +20°C/<br>-10°C,<br>100kHz | Maximum<br>RMS<br>Ripple<br>Current<br>(mA)<br>100 kHz,<br>+105°C | Dims DxDL<br>(mm) |
|------|---------------------|----------------|----------------------------------------|-------------------------------------------|-------------------------------------------------------------------|-------------------|
| 6.3  | 150                 | 157KXM6R3M     | 2.4315                                 | 0.3/1                                     | 250                                                               | 5x11              |
| 6.3  | 330                 | 337KXM6R3M     | 1.1052                                 | 0.13/0.41                                 | 405                                                               | 6.3x11            |
| 6.3  | 560                 | 567KXM6R3M     | 0.6513                                 | 0.072/0.22                                | 760                                                               | 8x11.5            |
| 6.3  | 820                 | 827KXM6R3M     | 0.4448                                 | 0.056/0.17                                | 995                                                               | 8x16              |
| 6.3  | 1000                | 108KXM6R3M     | 0.3647                                 | 0.053/0.16                                | 1030                                                              | 10x12.5           |
| 6.3  | 1200                | 128KXM6R3M     | 0.3039                                 | 0.041/0.13                                | 1250                                                              | 8x20              |
| 6.3  | 1200                | 128KXM6R3MLQ   | 0.3039                                 | 0.058/0.144                               | 1430                                                              | 10x16             |
| 6.3  | 1500                | 158KXM6R3M     | 0.2432                                 | 0.023/0.069                               | 1820                                                              | 10x20             |
| 6.3  | 2200                | 228KXM6R3M     | 0.1658                                 | 0.022/0.066                               | 1980                                                              | 10x25             |
| 6.3  | 3300                | 338KXM6R3M     | 0.1105                                 | 0.021/0.053                               | 2080                                                              | 12.5x20           |
| 6.3  | 3900                | 398KXM6R3M     | 0.0935                                 | 0.018/0.045                               | 2470                                                              | 12.5x25           |
| 6.3  | 4700                | 478KXM6R3M     | 0.0776                                 | 0.016/0.041                               | 3290                                                              | 12.5x30           |
| 6.3  | 5600                | 568KXM6R3M     | 0.0651                                 | 0.015/0.039                               | 3400                                                              | 12.5x35           |
| 6.3  | 6800                | 688KXM6R3M     | 0.0536                                 | 0.016/0.043                               | 3250                                                              | 16x25             |
| 6.3  | 10000               | 109KXM6R3M     | 0.0365                                 | 0.022/0.043                               | 3000                                                              | 16x30             |
| 6.3  | 15000               | 159KXM6R3M     | 0.0243                                 | 0.02/0.041                                | 3610                                                              | 18x35             |
| 10   | 100                 | 107KXM010M     | 3.1499                                 | 0.3/1                                     | 250                                                               | 5x11              |
| 10   | 220                 | 227KXM010M     | 1.4318                                 | 0.13/0.41                                 | 405                                                               | 6.3x11            |
| 10   | 470                 | 477KXM010M     | 0.6702                                 | 0.072/0.22                                | 760                                                               | 8x11.5            |
| 10   | 680                 | 687KXM010M     | 0.4632                                 | 0.056/0.17                                | 995                                                               | 8x16              |
| 10   | 680                 | 687KXM010MLN   | 0.4632                                 | 0.077/0.194                               | 760                                                               | 10x12.5           |
| 10   | 1000                | 108KXM010M     | 0.315                                  | 0.041/0.13                                | 1250                                                              | 8x20              |
| 10   | 1000                | 108KXM010MLQ   | 0.315                                  | 0.063/0.158                               | 1430                                                              | 10x16             |
| 10   | 1200                | 128KXM010M     | 0.2901                                 | 0.023/0.069                               | 1820                                                              | 10x20             |
| 10   | 1500                | 158KXM010M     | 0.21                                   | 0.022/0.066                               | 2150                                                              | 10x25             |
| 10   | 2200                | 228KXM010M     | 0.1733                                 | 0.021/0.053                               | 2150                                                              | 12.5x20           |
| 10   | 3300                | 338KXM010M     | 0.0955                                 | 0.018/0.045                               | 2770                                                              | 12.5x25           |
| 10   | 3900                | 398KXM010M     | 0.0808                                 | 0.016/0.041                               | 3290                                                              | 12.5x30           |
| 10   | 4700                | 478KXM010M     | 0.067                                  | 0.015/0.039                               | 3400                                                              | 12.5x35           |
| 10   | 4700                | 478KXM010MQV   | 0.067                                  | 0.025/0.051                               | 2350                                                              | 16x25             |
| 10   | 5600                | 568KXM010M     | 0.0562                                 | 0.016/0.043                               | 3018                                                              | 16x25             |
| 10   | 6800                | 688KXM010M     | 0.0463                                 | 0.023/0.045                               | 2850                                                              | 16x30             |
| 10   | 10000               | 109KXM010M     | 0.0315                                 | 0.021/0.041                               | 3430                                                              | 18x35             |
| 10   | 15000               | 159KXM010M     | 0.021                                  | 0.019/0.039                               | 3850                                                              | 18x40             |
| 16   | 56                  | 566KXM016M     | 4.7368                                 | 0.3/1                                     | 250                                                               | 5x11              |
| 16   | 68                  | 686KXM016M     | 3.9009                                 | 0.5/1.25                                  | 180                                                               | 5x11              |
| 16   | 120                 | 127KXM016M     | 2.2105                                 | 0.13/0.41                                 | 405                                                               | 6.3x11            |
| 16   | 330                 | 337KXM016M     | 0.8038                                 | 0.072/0.22                                | 760                                                               | 8x11.5            |
| 16   | 470                 | 477KXM016M     | 0.5644                                 | 0.056/0.17                                | 995                                                               | 8x16              |
| 16   | 470                 | 477KXM016MLN   | 0.5644                                 | 0.053/0.233                               | 1030                                                              | 10x12.5           |
| 16   | 680                 | 687KXM016M     | 0.3901                                 | 0.041/0.13                                | 1250                                                              | 8x20              |
| 16   | 680                 | 687KXM016MLQ   | 0.3901                                 | 0.074/0.184                               | 880                                                               | 10x16             |
| 16   | 1000                | 108KXM016M     | 0.2653                                 | 0.023/0.069                               | 1820                                                              | 10x20             |
| 16   | 1200                | 128KXM016M     | 0.221                                  | 0.022/0.066                               | 2150                                                              | 10x25             |
| 16   | 1500                | 158KXM016M     | 0.1768                                 | 0.021/0.053                               | 2360                                                              | 12.5x20           |
| 16   | 2200                | 228KXM016M     | 0.1206                                 | 0.018/0.045                               | 2770                                                              | 12.5x25           |
| 16   | 2700                | 278KXM016M     | 0.0982                                 | 0.016/0.041                               | 3290                                                              | 12.5x30           |
| 16   | 3300                | 338KXM016M     | 0.0804                                 | 0.015/0.039                               | 3150                                                              | 12.5x35           |
| 16   | 3300                | 338KXM016MQV   | 0.0804                                 | 0.029/0.057                               | 2200                                                              | 16x25             |
| 16   | 3900                | 398KXM016M     | 0.068                                  | 0.016/0.043                               | 3460                                                              | 16x25             |
| 16   | 4700                | 478KXM016M     | 0.0564                                 | 0.024/0.048                               | 2670                                                              | 16x30             |
| 16   | 6800                | 688KXM016M     | 0.039                                  | 0.022/0.043                               | 3280                                                              | 18x35             |
| 16   | 10000               | 109KXM016M     | 0.0265                                 | 0.019/0.039                               | 3670                                                              | 18x40             |
| 25   | 47                  | 476KXM025M     | 4.9383                                 | 0.3/1                                     | 250                                                               | 5x11              |
| 25   | 100                 | 107KXM025M     | 2.321                                  | 0.13/0.41                                 | 410                                                               | 6.3x11            |
| 25   | 220                 | 227KXM025M     | 1.055                                  | 0.072/0.22                                | 760                                                               | 8x11.5            |
| 25   | 330                 | 337KXM025M     | 0.7033                                 | 0.056/0.17                                | 995                                                               | 8x16              |
| 25   | 330                 | 337KXM025MLN   | 0.7033                                 | 0.053/0.17                                | 1030                                                              | 10x12.5           |

| WVDC | Capacitance<br>(μF) | IC PART NUMBER | Maximum<br>ESR (Ω)<br>120 Hz,<br>+20°C | Impedance<br>Ω +20°C/<br>-10°C,<br>100kHz | Maximum<br>RMS<br>Ripple<br>Current<br>(mA)<br>100 kHz,<br>+105°C | Dims DxDL<br>(mm) |
|------|---------------------|----------------|----------------------------------------|-------------------------------------------|-------------------------------------------------------------------|-------------------|
| 25   | 470                 | 477KXM025M     | 0.4938                                 | 0.041/0.13                                | 1250                                                              | 8x20              |
| 25   | 470                 | 477KXM025MLQ   | 0.4938                                 | 0.038/0.221                               | 1430                                                              | 10x16             |
| 25   | 680                 | 687KXM025M     | 0.3413                                 | 0.023/0.069                               | 1820                                                              | 10x20             |
| 25   | 820                 | 827KXM025M     | 0.283                                  | 0.022/0.066                               | 2150                                                              | 10x25             |
| 25   | 1000                | 108KXM025M     | 0.2321                                 | 0.021/0.053                               | 2360                                                              | 12.5x20           |
| 25   | 1200                | 128KXM025M     | 0.1934                                 | 0.05/0.124                                | 1730                                                              | 12.5x20           |
| 25   | 1500                | 158KXM025M     | 0.1547                                 | 0.018/0.045                               | 2770                                                              | 12.5x25           |
| 25   | 1800                | 188KXM025M     | 0.1289                                 | 0.016/0.041                               | 3290                                                              | 12.5x30           |
| 25   | 2200                | 228KXM025M     | 0.1055                                 | 0.015/0.039                               | 3400                                                              | 12.5x35           |
| 25   | 2200                | 228KXM025MQV   | 0.1055                                 | 0.032/0.065                               | 2390                                                              | 16x25             |
| 25   | 2700                | 278KXM025M     | 0.086                                  | 0.016/0.043                               | 3000                                                              | 16x25             |
| 25   | 3300                | 338KXM025M     | 0.0703                                 | 0.027/0.054                               | 3020                                                              | 16x30             |
| 25   | 4700                | 478KXM025M     | 0.0494                                 | 0.023/0.046                               | 3700                                                              | 18x35             |
| 35   | 33                  | 336KXM035M     | 6.0286                                 | 0.3/1                                     | 250                                                               | 5x11              |
| 35   | 56                  | 566KXM035M     | 3.5526                                 | 0.25/0.41                                 | 350                                                               | 6.3x11            |
| 35   | 68                  | 686KXM035M     | 2.9256                                 | 0.397/0.991                               | 280                                                               | 6.3x11            |
| 35   | 150                 | 157KXM035M     | 1.3263                                 | 0.072/0.22                                | 760                                                               | 8x11.5            |
| 35   | 220                 | 227KXM035M     | 0.9043                                 | 0.065/0.17                                | 980                                                               | 8x16              |
| 35   | 220                 | 227KXM035MLN   | 0.9043                                 | 0.06/0.319                                | 1050                                                              | 10x12.5           |
| 35   | 270                 | 277KXM035M     | 0.7368                                 | 0.041/0.13                                | 1250                                                              | 8x20              |
| 35   | 330                 | 337KXM035M     | 0.6029                                 | 0.038/0.12                                | 1430                                                              | 10x16             |
| 35   | 470                 | 477KXM035M     | 0.4233                                 | 0.023/0.069                               | 1820                                                              | 10x20             |
| 35   | 560                 | 567KXM035M     | 0.3553                                 | 0.022/0.066                               | 2150                                                              | 10x25             |
| 35   | 680                 | 687KXM035M     | 0.2926                                 | 0.021/0.053                               | 2150                                                              | 12.5x20           |
| 35   | 1000                | 108KXM035M     | 0.1989                                 | 0.018/0.045                               | 2770                                                              | 12.5x25           |
| 35   | 1200                | 128KXM035M     | 0.1658                                 | 0.016/0.041                               | 3290                                                              | 12.5x30           |
| 35   | 1500                | 158KXM035M     | 0.1326                                 | 0.015/0.039                               | 3400                                                              | 12.5x35           |
| 35   | 1500                | 158KXM035MQV   | 0.1326                                 | 0.04/0.079                                | 2700                                                              | 16x25             |
| 35   | 1800                | 188KXM035M     | 0.1105                                 | 0.016/0.043                               | 3460                                                              | 16x25             |
| 35   | 2200                | 228KXM035M     | 0.0904                                 | 0.031/0.077                               | 2880                                                              | 16x30             |
| 35   | 3300                | 338KXM035M     | 0.0603                                 | 0.026/0.064                               | 3650                                                              | 18x35             |
| 50   | 4.7                 | 475KXM050M     | 35.2737                                | 1.699/5.096                               | 80                                                                | 5x11              |
| 50   | 10                  | 106KXM050M     | 16.579                                 | 0.55/3.992                                | 240                                                               | 5x11              |
| 50   | 22                  | 226KXM050M     | 7.5357                                 | 0.34/1.18                                 | 238                                                               | 5x11              |
| 50   | 33                  | 336KXM050M     | 5.0238                                 | 0.564/1.411                               | 230                                                               | 6.3x11            |
| 50   | 47                  | 476KXM050M     | 3.5274                                 | 0.24/1.132                                | 320                                                               | 6.3x11            |
| 50   | 56                  | 566KXM050M     | 2.9605                                 | 0.14/0.5                                  | 385                                                               | 6.3x11            |
| 50   | 68                  | 686KXM050M     | 2.438                                  | 0.352/0.88                                | 380                                                               | 8x11.5            |
| 50   | 100                 | 107KXM050M     | 1.6579                                 | 0.1/0.24                                  | 610                                                               | 8x11.5            |
| 50   | 120                 | 127KXM050M     | 1.3816                                 | 0.061/0.18                                | 950                                                               | 8x15              |
| 50   | 150                 | 157KXM050M     | 1.1052                                 | 0.061/0.18                                | 979                                                               | 10x12.5           |
| 50   | 180                 | 187KXM050M     | 0.921                                  | 0.046/0.14                                | 1190                                                              | 8x20              |
| 50   | 220                 | 227KXM050M     | 0.7536                                 | 0.06/0.12                                 | 1136                                                              | 10x16             |
| 50   | 270                 | 277KXM050M     | 0.614                                  | 0.03/0.09                                 | 1580                                                              | 10x20             |
| 50   | 330                 | 337KXM050M     | 0.5024                                 | 0.028/0.085                               | 1870                                                              | 10x25             |
| 50   | 470                 | 477KXM050M     | 0.3527                                 | 0.035/0.068                               | 1900                                                              | 12.5x20           |
| 50   | 560                 | 567KXM050M     | 0.296                                  | 0.023/0.059                               | 2410                                                              | 12.5x25           |
| 50   | 680                 | 687KXM050M     | 0.2438                                 | 0.021/0.052                               | 2860                                                              | 12.5x30           |
| 50   | 820                 | 827KXM050M     | 0.2022                                 | 0.019/0.023                               | 3960                                                              | 12.5x35           |
| 50   | 1000                | 108KXM050M     | 0.1658                                 | 0.021/0.056                               | 2850                                                              | 16x25             |
| 50   | 1200                | 128KXM050M     | 0.1382                                 | 0.042/0.083                               | 2710                                                              | 16x30             |
| 50   | 1500                | 158KXM050M     | 0.1326                                 | 0.035/0.071                               | 3010                                                              | 16x35             |
| 50   | 2200                | 228KXM050M     | 0.1055                                 | 0.027/0.055                               | 3690                                                              | 18x35             |
| 50   | 3300                | 338KXM050M     | 0.0804                                 | 0.023/0.046                               | 4350                                                              | 18x40             |
| 63   | 10                  | 106KXM063M     | 16.579                                 | 1.08/2.16                                 | 137                                                               | 5x11              |
| 63   | 12                  | 126KXM063M     | 11.0524                                | 0.95/1.9                                  | 148                                                               | 5x11              |
| 63   | 15                  | 156KXM063M     | 8.842                                  | 0.75/1.5                                  | 185                                                               | 6.3x11            |
| 63   | 18                  | 186KXM063M     | 7.3683                                 | 0.64/1.28                                 | 198                                                               | 6.3x11            |

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# KXM

**+105°C, High Voltage Low  
Impedance Long Life, 5000  
hours**

| WVDC | Capacitance<br>(μF) | IC PART NUMBER | Maximum<br>ESR (Ω)<br>120 Hz,<br>+20°C | Impedance<br>Ω +20°C/<br>-10°C,<br>100kHz | Maximum<br>RMS<br>Ripple<br>Current<br>(mA)<br>100 kHz,<br>+105°C | Dims DxL<br>(mm) |
|------|---------------------|----------------|----------------------------------------|-------------------------------------------|-------------------------------------------------------------------|------------------|
| 63   | 22                  | 226KXM063M     | 7.5357                                 | 0.5/1.06                                  | 250                                                               | 6.3x11           |
| 63   | 27                  | 276KXM063M     | 6.1402                                 | 0.43/0.86                                 | 240                                                               | 6.3x11           |
| 63   | 33                  | 336KXM063M     | 5.0238                                 | 0.36/0.72                                 | 308                                                               | 6.3x15           |
| 63   | 39                  | 396KXM063M     | 4.2509                                 | 0.31/0.62                                 | 325                                                               | 6.3x15           |
| 63   | 47                  | 476KXM063M     | 3.5274                                 | 0.22/0.81                                 | 480                                                               | 8x11.5           |
| 63   | 56                  | 566KXM063MJP   | 2.9605                                 | 0.22/0.44                                 | 460                                                               | 8x16             |
| 63   | 56                  | 566KXM063M     | 2.9605                                 | 0.24/0.48                                 | 445                                                               | 10x12.5          |
| 63   | 68                  | 686KXM063MJP   | 2.438                                  | 0.18/0.36                                 | 510                                                               | 8x16             |
| 63   | 68                  | 686KXM063M     | 2.438                                  | 0.2/0.4                                   | 500                                                               | 10x12.5          |
| 63   | 82                  | 826KXM063MJU   | 2.0218                                 | 0.17/0.34                                 | 600                                                               | 8x20             |
| 63   | 82                  | 826KXM063M     | 2.0218                                 | 0.16/0.32                                 | 580                                                               | 10x15            |
| 63   | 100                 | 107KXM063M     | 1.6579                                 | 0.13/0.26                                 | 748                                                               | 10x20            |
| 63   | 100                 | 107KXM063MNP   | 1.6579                                 | 0.15/0.3                                  | 700                                                               | 12.5x15          |
| 63   | 120                 | 127KXM063M     | 1.3816                                 | 0.11/0.22                                 | 820                                                               | 10x20            |
| 63   | 120                 | 127KXM063MNP   | 1.3816                                 | 0.125/0.15                                | 755                                                               | 12.5x15          |
| 63   | 150                 | 157KXM063M     | 1.1052                                 | 0.092/0.184                               | 940                                                               | 10x25            |
| 63   | 150                 | 157KXM063MNP   | 1.1052                                 | 0.095/0.19                                | 847                                                               | 12.5x15          |
| 63   | 180                 | 187KXM063M     | 0.921                                  | 0.077/0.154                               | 1100                                                              | 10x30            |
| 63   | 180                 | 187KXM063MQP   | 0.921                                  | 0.082/0.164                               | 1025                                                              | 16x15            |
| 63   | 220                 | 227KXM063M     | 0.6029                                 | 0.067/0.134                               | 1145                                                              | 12.5x20          |
| 63   | 220                 | 227KXM063MQP   | 0.6029                                 | 0.072/0.144                               | 1125                                                              | 16x15            |
| 63   | 270                 | 277KXM063M     | 0.614                                  | 0.056/0.112                               | 1350                                                              | 12.5x25          |
| 63   | 270                 | 277KXM063MRP   | 0.614                                  | 0.06/0.12                                 | 1300                                                              | 18x15            |
| 63   | 330                 | 337KXM063M     | 0.5024                                 | 0.05/0.1                                  | 1425                                                              | 12.5x25          |
| 63   | 330                 | 337KXM063MRP   | 0.5024                                 | 0.051/0.102                               | 1400                                                              | 18x15            |
| 63   | 390                 | 397KXM063M     | 0.4251                                 | 0.044/0.088                               | 1625                                                              | 12.5x30          |
| 63   | 390                 | 397KXM063MQU   | 0.4251                                 | 0.047/0.094                               | 1500                                                              | 16x20            |
| 63   | 470                 | 477KXM063M     | 0.3527                                 | 0.04/0.08                                 | 1785                                                              | 12.5x35          |
| 63   | 470                 | 477KXM063MQV   | 0.3527                                 | 0.042/0.084                               | 1700                                                              | 16x25            |
| 63   | 560                 | 567KXM063M     | 0.296                                  | 0.036/0.072                               | 1950                                                              | 12.5x40          |
| 63   | 560                 | 567KXM063MRU   | 0.296                                  | 0.04/0.08                                 | 1725                                                              | 18x20            |
| 63   | 680                 | 687KXM063M     | 0.195                                  | 0.033/0.066                               | 2050                                                              | 16x30            |
| 63   | 680                 | 687KXM063MRV   | 0.195                                  | 0.036/0.072                               | 1950                                                              | 18x25            |
| 63   | 820                 | 827KXM063M     | 0.2022                                 | 0.03/0.06                                 | 2225                                                              | 16x35            |
| 63   | 820                 | 827KXM063MRW   | 0.2022                                 | 0.032/0.064                               | 2100                                                              | 18x30            |
| 63   | 1000                | 108KXM063M     | 0.1658                                 | 0.028/0.056                               | 2375                                                              | 16x40            |
| 63   | 1000                | 108KXM063MRY   | 0.1658                                 | 0.03/0.06                                 | 2280                                                              | 18x35            |
| 63   | 1200                | 128KXM063M     | 0.1243                                 | 0.026/0.052                               | 2500                                                              | 18x40            |
| 100  | 1                   | 105KXM100M     | 132.629                                | 17/46                                     | 26                                                                | 5x11             |
| 100  | 1.5                 | 155KXM100M     | 88.419                                 | 10/27                                     | 33                                                                | 5x11             |
| 100  | 2.2                 | 225KXM100M     | 75.3575                                | 6.8/18.36                                 | 45                                                                | 5x11             |
| 100  | 3.3                 | 335KXM100M     | 40.191                                 | 4.15/11.205                               | 55                                                                | 5x11             |

| WVDC | Capacitance<br>(μF) | IC PART NUMBER | Maximum<br>ESR (Ω)<br>120 Hz,<br>+20°C | Impedance<br>Ω +20°C/<br>-10°C,<br>100kHz | Maximum<br>RMS<br>Ripple<br>Current<br>(mA)<br>100 kHz,<br>+105°C | Dims DxL<br>(mm) |
|------|---------------------|----------------|----------------------------------------|-------------------------------------------|-------------------------------------------------------------------|------------------|
| 100  | 4.7                 | 475KXM100M     | 35.2737                                | 3/8.1                                     | 70                                                                | 6.3x11           |
| 100  | 6.8                 | 685KXM100M     | 24.38                                  | 2/5.4                                     | 85                                                                | 6.3x11           |
| 100  | 10                  | 106KXM100M     | 16.579                                 | 1/3.375                                   | 150                                                               | 6.3x11           |
| 100  | 12                  | 126KXM100M     | 11.0524                                | 1/2.7                                     | 115                                                               | 6.3x11           |
| 100  | 15                  | 156KXM100M     | 8.842                                  | 0.82/2.214                                | 132                                                               | 6.3x15           |
| 100  | 18                  | 186KXM100M     | 7.3683                                 | 0.39/1.863                                | 155                                                               | 6.3x15           |
| 100  | 22                  | 226KXM100M     | 7.5357                                 | 0.8/1.54                                  | 370                                                               | 8x11.5           |
| 100  | 27                  | 276KXM100MJP   | 6.1402                                 | 0.48/1.3                                  | 280                                                               | 8x16             |
| 100  | 27                  | 276KXM100M     | 6.1402                                 | 0.05/1.4                                  | 270                                                               | 10x12.5          |
| 100  | 33                  | 336KXM100MJP   | 5.0238                                 | 0.4/1.08                                  | 300                                                               | 8x16             |
| 100  | 33                  | 336KXM100M     | 5.0238                                 | 0.44/1.19                                 | 295                                                               | 10x12.5          |
| 100  | 39                  | 396KXM100MJU   | 4.2509                                 | 0.34/0.92                                 | 350                                                               | 8x20             |
| 100  | 39                  | 396KXM100M     | 4.2509                                 | 0.38/1.03                                 | 340                                                               | 10x15            |
| 100  | 47                  | 476KXM100M     | 3.5274                                 | 0.3/0.81                                  | 420                                                               | 10x20            |
| 100  | 47                  | 476KXM100MNP   | 3.5274                                 | 0.33/0.89                                 | 400                                                               | 12.5x15          |
| 100  | 56                  | 566KXM100M     | 2.9605                                 | 0.25/0.675                                | 455                                                               | 10x20            |
| 100  | 56                  | 566KXM100MNP   | 2.9605                                 | 0.29/0.78                                 | 430                                                               | 12.5x15          |
| 100  | 68                  | 686KXM100M     | 2.438                                  | 0.22/0.594                                | 530                                                               | 10x25            |
| 100  | 68                  | 686KXM100MNP   | 2.438                                  | 0.25/0.675                                | 465                                                               | 12.5x15          |
| 100  | 82                  | 826KXM100M     | 2.0218                                 | 0.2/0.54                                  | 610                                                               | 10x30            |
| 100  | 82                  | 826KXM100MQP   | 2.0218                                 | 0.21/0.567                                | 680                                                               | 16x15            |
| 100  | 100                 | 107KXM100M     | 1.6579                                 | 0.16/0.432                                | 660                                                               | 10x30            |
| 100  | 100                 | 107KXM100MQP   | 1.6579                                 | 0.18/0.486                                | 715                                                               | 16x15            |
| 100  | 120                 | 127KXM100M     | 1.3816                                 | 0.135/0.351                               | 770                                                               | 12.5x25          |
| 100  | 120                 | 127KXM100MQP   | 1.3816                                 | 0.15/0.405                                | 795                                                               | 16x15            |
| 100  | 150                 | 157KXM100M     | 1.1052                                 | 0.12/0.324                                | 800                                                               | 12.5x25          |
| 100  | 150                 | 157KXM100MRP   | 1.1052                                 | 0.13/0.351                                | 915                                                               | 18x15            |
| 100  | 180                 | 187KXM100M     | 0.921                                  | 0.1/0.27                                  | 900                                                               | 12.5x30          |
| 100  | 180                 | 187KXM100MQU   | 0.921                                  | 0.11/0.3                                  | 995                                                               | 16x20            |
| 100  | 220                 | 227KXM100M     | 0.6029                                 | 0.088/0.238                               | 1000                                                              | 12.5x35          |
| 100  | 220                 | 227KXM100MQV   | 0.6029                                 | 0.094/0.254                               | 1150                                                              | 16x25            |
| 100  | 270                 | 277KXM100M     | 0.614                                  | 0.074/0.2                                 | 1110                                                              | 12.5x40          |
| 100  | 270                 | 277KXM100MRU   | 0.614                                  | 0.082/0.221                               | 1225                                                              | 18x20            |
| 100  | 330                 | 337KXM100M     | 0.5024                                 | 0.065/0.176                               | 1520                                                              | 16x30            |
| 100  | 330                 | 337KXM100MRV   | 0.5024                                 | 0.072/0.194                               | 1425                                                              | 18x25            |
| 100  | 390                 | 397KXM100M     | 0.4251                                 | 0.055/0.149                               | 1725                                                              | 16x35            |
| 100  | 390                 | 397KXM100MRW   | 0.4251                                 | 0.063/0.17                                | 1600                                                              | 18x30            |
| 100  | 470                 | 477KXM100M     | 0.3527                                 | 0.049/0.132                               | 1920                                                              | 16x40            |
| 100  | 470                 | 477KXM100MRY   | 0.3527                                 | 0.056/0.157                               | 1775                                                              | 18x35            |
| 100  | 560                 | 567KXM100M     | 0.296                                  | 0.043/0.116                               | 2050                                                              | 18x35            |
| 100  | 680                 | 687KXM100M     | 0.195                                  | 0.038/0.103                               | 2300                                                              | 18x40            |

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