



**THE DATASHEET OF
SXR681M016ST**



Type SXR 105 °C Long Life Aluminum Electrolytic Capacitors

Low ESR, High Ripple, Radial Leaded Aluminum Electrolytic Capacitors



Type SXR is a radial leaded aluminum electrolytic capacitor with a +105 °C, 2000 to 5000 hours long life ratings. The low ESR and high ripple current ratings make it ideal for output filtering applications in switching power supplies.

Highlights

- +105 °C
- 2000 to 5000 hours - long life
- Low ESR
- High ripple current
- Available in T & R and ammo pack

Specifications

| Temperature Range | -40 °C to +105 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|------------|--------------------|----------|--------|---------|------|---------|------|----------|--------|-------|--------|---------|---------|------|------|------|------|------|------|---------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------------------|-----|-----|-----|-----|------|------------|------|------|------|------|------|
| Rated Voltage Range | 6.3 to 100 Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Range | 22 to 15,000 µF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ± 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC Leakage Current | $I \leq .01CV$ or $3 \mu A$ after 2 minutes @ +20 °C, whichever is greater C = Capacitance in (µF) V = Rated voltage I = Leakage current in µA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ripple Current Multipliers | <table border="1"> <thead> <tr> <th rowspan="2">Rated WVDC</th> <th colspan="6">Ripple Multipliers</th> </tr> <tr> <th>60Hz</th> <th>120Hz</th> <th>400 Hz</th> <th>1 kHz</th> <th>10 kHz</th> <th>100 kHz</th> </tr> </thead> <tbody> <tr> <td>10 - 16</td> <td>0.45</td> <td>0.60</td> <td>0.83</td> <td>0.94</td> <td>0.98</td> <td>1.00</td> </tr> <tr> <td>25 - 35</td> <td>0.38</td> <td>0.50</td> <td>0.75</td> <td>0.90</td> <td>0.97</td> <td>1.00</td> </tr> <tr> <td>50 - 100</td> <td>0.36</td> <td>0.46</td> <td>0.70</td> <td>0.88</td> <td>0.94</td> <td>1.00</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Temperature (°C)</th> <th>+65</th> <th>+75</th> <th>+85</th> <th>+95</th> <th>+105</th> </tr> </thead> <tbody> <tr> <td>Multiplier</td> <td>2.12</td> <td>1.92</td> <td>1.69</td> <td>1.50</td> <td>1.00</td> </tr> </tbody> </table> | Rated WVDC | Ripple Multipliers | | | | | | 60Hz | 120Hz | 400 Hz | 1 kHz | 10 kHz | 100 kHz | 10 - 16 | 0.45 | 0.60 | 0.83 | 0.94 | 0.98 | 1.00 | 25 - 35 | 0.38 | 0.50 | 0.75 | 0.90 | 0.97 | 1.00 | 50 - 100 | 0.36 | 0.46 | 0.70 | 0.88 | 0.94 | 1.00 | Temperature (°C) | +65 | +75 | +85 | +95 | +105 | Multiplier | 2.12 | 1.92 | 1.69 | 1.50 | 1.00 |
| Rated WVDC | Ripple Multipliers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 60Hz | 120Hz | 400 Hz | 1 kHz | 10 kHz | 100 kHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 - 16 | 0.45 | 0.60 | 0.83 | 0.94 | 0.98 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 - 35 | 0.38 | 0.50 | 0.75 | 0.90 | 0.97 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 - 100 | 0.36 | 0.46 | 0.70 | 0.88 | 0.94 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature (°C) | +65 | +75 | +85 | +95 | +105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiplier | 2.12 | 1.92 | 1.69 | 1.50 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor @ 120 Hz, +25 °C | <table border="1"> <thead> <tr> <th>WV (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>DF(%)</td> <td>22</td> <td>19</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>9</td> <td>8</td> </tr> </tbody> </table> <p>For capacitors whose capacitance value exceeds 1000 µF, the value of DF (%) is increased 2% for every additional 1000 µF</p> | WV (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | DF(%) | 22 | 19 | 16 | 14 | 12 | 10 | 9 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WV (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DF(%) | 22 | 19 | 16 | 14 | 12 | 10 | 9 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Load Life Test | <p>Apply WVDC for:</p> <table border="1"> <thead> <tr> <th>Case Dia.</th> <th>Lifetime (Hours)</th> </tr> </thead> <tbody> <tr> <td>≤ 6.3 mm</td> <td>2000</td> </tr> <tr> <td>8.0 mm</td> <td>3000</td> </tr> <tr> <td>10.0 mm</td> <td>4000</td> </tr> <tr> <td>≥13.0 mm</td> <td>5000</td> </tr> </tbody> </table> <p>Capacitance change within 25% of initial value DC leakage current meets initial limits DF ≤ 200% of initial limit</p> | Case Dia. | Lifetime (Hours) | ≤ 6.3 mm | 2000 | 8.0 mm | 3000 | 10.0 mm | 4000 | ≥13.0 mm | 5000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case Dia. | Lifetime (Hours) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≤ 6.3 mm | 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.0 mm | 3000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.0 mm | 4000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≥13.0 mm | 5000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | 1000 hrs with no voltage applied at +105 °C Cap change within 25% of initial values DF ≤ 200% of initial limit DC leakage current meets initial limits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RoHS Compliant

Type SXR 105 °C Long Life Aluminum Electrolytic Capacitors

Low ESR, High Ripple, Radial Led Aluminum Electrolytic Capacitors

Part Numbering System

| SXR | 101 | M | 100 | S | T |
|------|-------------------|-----------------------|---------------|------------------------------|-----------------------------|
| Type | Capacitance | Capacitance Tolerance | Rated Voltage | Packaging | Lead Configuration |
| SXR | (μF) | (%) | (Vdc) | | |
| | 1R0 = 1 | K = ± 10 | 6R3 = 6.3 | A = Tape & Ammo | 1 = Lead cut |
| | 100 = 10 | M = ± 20 | 010 = 10 | E = Different Characteristic | 2 = Lead form |
| | 101 = 100 | | 100 = 100 | R = Tape & Reel | 4 = Lead crimp & cut (form) |
| | 102 = 1000 | | | S = Standard | |

Outline Drawing



Case vented on diameters 6.3 and greater

Vinyl sleeve adds .5 Max. to diameter and 2.0 Max. to length

Outline Dimensions (Millimeters)

Ratings

| Cap (μF) | Catalog Part Number | Max ESR 100 kHz 25 °C (Ω) | Max Ripple 100 kHz 105 °C (mA) | Size in. (mm) | | | |
|--------------------------------|---------------------|---|---|---------------|-------------|----------------|---------------|
| | | | | Diameter (D) | Length (L) | Lead Space (S) | Lead Dia. (d) |
| 6.3 Vdc (8 Volts Surge) | | | | | | | |
| 120 | SXR121M6R3ST | 2.43 | 154 | .197 (5.0) | .433 (11.0) | .079 (2.0) | .0197 (0.5) |
| 150 | SXR151M6R3ST | 1.95 | 210 | .236 (6.0) | .433 (11.0) | .098 (2.5) | .0197 (0.5) |
| 220 | SXR221M6R3ST | 1.33 | 260 | .315 (8.0) | .433 (11.0) | .138 (3.5) | .0236 (0.6) |
| 330 | SXR331M6R3ST | 0.88 | 350 | .315 (8.0) | .433 (11.0) | .138 (3.5) | .0236 (0.6) |
| 470 | SXR471M6R3ST | 0.62 | 510 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 680 | SXR681M6R3ST | 0.43 | 635 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 820 | SXR821M6R3ST | 0.36 | 650 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 1000 | SXR102M6R3ST | 0.29 | 860 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 1200 | SXR122M6R3ST | 0.24 | 860 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 1500 | SXR152M6R3ST | 0.20 | 1030 | .394 (10.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 3300 | SXR332M6R3ST | 0.10 | 1280 | .472 (12.0) | 1.38 (35.0) | .197 (5.0) | .0236 (0.6) |
| 4700 | SXR472M6R3ST | 0.08 | 1770 | .472 (12.0) | 1.38 (35.0) | .197 (5.0) | .0236 (0.6) |
| 6800 | SXR682M6R3ST | 0.07 | 1810 | .630 (16.0) | 1.26 (32.0) | .295 (7.5) | .0315 (0.8) |
| 8200 | SXR822M6R3ST | 0.06 | 2030 | .630 (16.0) | 1.40 (36.0) | .295 (7.5) | .0315 (0.8) |
| 10000 | SXR103M6R3ST | 0.05 | 2320 | .630 (16.0) | 1.57 (40.0) | .295 (7.5) | .0315 (0.8) |
| 15000 | SXR153M6R3ST | 0.04 | 2460 | .709 (18.0) | 1.57 (40.0) | .295 (7.5) | .0315 (0.8) |

Type SXR 105 °C Long Life Aluminum Electrolytic Capacitors

Low ESR, High Ripple, Radial Leaded Aluminum Electrolytic Capacitors

| Cap (μ F) | Catalog Part Number | Max ESR 100 kHz 25 °C (Ω) | Max Ripple 100 kHz 105 °C (mA) | Size in. (mm) | | | |
|--------------------------------|------------------------|---|---|-----------------|---------------|-------------------|------------------|
| | | | | Diameter (D) | Length (L) | Lead Space (S) | Lead Dia. (d) |
| 10 Vdc (13 Volts Surge) | | | | | | | |
| 100 | SXR101M010ST | 2.52 | 180 | .236 (6.0) | .433 (11.0) | .098 (2.5) | .0197 (0.5) |
| 120 | SXR121M010ST | 2.10 | 210 | .236 (6.0) | .433 (11.0) | .098 (2.5) | .0197 (0.5) |
| 150 | SXR151M010ST | 1.68 | 240 | .236 (6.0) | .433 (11.0) | .098 (2.5) | .0197 (0.5) |
| 220 | SXR221M010ST | 1.15 | 300 | .315 (8.0) | .433 (11.0) | .138 (3.5) | .0236 (0.6) |
| 330 | SXR331M010ST | 0.76 | 400 | .315 (8.0) | .472 (12.0) | .138 (3.5) | .0236 (0.6) |
| 470 | SXR471M010ST | 0.54 | 500 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 680 | SXR681M010ST | 0.37 | 650 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 820 | SXR821M010ST | 0.31 | 860 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 1000 | SXR102M010ST | 0.25 | 970 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 1200 | SXR122M010ST | 0.21 | 1030 | .394 (10.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 1500 | SXR152M010ST | 0.18 | 1150 | .394 (10.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 2200 | SXR222M010ST | 0.13 | 1320 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 3300 | SXR332M010ST | 0.09 | 1770 | .512 (13.0) | 1.42 (36.0) | .197 (5.0) | .0236 (0.6) |
| 4700 | SXR472M010ST | 0.08 | 1810 | .630 (16.0) | 1.26 (32.0) | .295 (7.5) | .0315 (0.8) |
| 6800 | SXR682M010ST | 0.06 | 2030 | .630 (16.0) | 1.42 (36.0) | .295 (7.5) | .0315 (0.8) |
| 10000 | SXR103M010ST | 0.05 | 2460 | .709 (18.0) | 1.57 (40.0) | .295 (7.5) | .0315 (0.8) |
| 16 Vdc (20 Volts Surge) | | | | | | | |
| 100 | SXR101M016ST | 2.12 | 230 | .315 (8.0) | .630 (16.0) | .138 (3.5) | .0197 (0.5) |
| 120 | SXR121M016ST | 1.77 | 260 | .315 (8.0) | .433 (11.0) | .138 (3.5) | .0236 (0.6) |
| 150 | SXR151M016ST | 1.42 | 300 | .315 (8.0) | .433 (11.0) | .138 (3.5) | .0236 (0.6) |
| 220 | SXR221M016ST | 0.97 | 400 | .315 (8.0) | .433 (11.0) | .138 (3.5) | .0236 (0.6) |
| 330 | SXR331M016ST | 0.64 | 500 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 470 | SXR471M016ST | 0.45 | 650 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 680 | SXR681M016ST | 0.31 | 860 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 820 | SXR821M016ST | 0.26 | 1030 | .394 (10.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 1000 | SXR102M016ST | 0.21 | 1150 | .394 (10.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 1200 | SXR122M016ST | 0.18 | 1120 | .472 (12.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 1500 | SXR152M016ST | 0.15 | 1320 | .472 (12.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 2200 | SXR222M016ST | 0.11 | 1540 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 3300 | SXR332M016ST | 0.08 | 1980 | .472 (12.0) | 1.57 (40.0) | .197 (5.0) | .0236 (0.6) |
| 4700 | SXR472M016ST | 0.07 | 2030 | .630 (16.0) | 1.42 (36.0) | .295 (7.5) | .0315 (0.8) |
| 6800 | SXR682M016ST | 0.05 | 2240 | .709 (18.0) | 1.42 (36.0) | .295 (7.5) | .0315 (0.8) |
| 8200 | SXR822M016ST | 0.05 | 2460 | .709 (18.0) | 1.57 (40.0) | .295 (7.5) | .0315 (0.8) |
| 25 Vdc (32 Volts Surge) | | | | | | | |
| 100 | SXR101M025ST | 1.86 | 300 | .315 (8.0) | .630 (16.0) | .138 (3.5) | .0197 (0.5) |
| 120 | SXR121M025ST | 1.55 | 350 | .315 (8.0) | .433 (11.0) | .138 (3.5) | .0236 (0.6) |
| 150 | SXR151M025ST | 1.24 | 400 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 220 | SXR221M025ST | 0.84 | 500 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 330 | SXR331M025ST | 0.56 | 650 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 470 | SXR471M025ST | 0.40 | 860 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 680 | SXR681M025ST | 0.27 | 1150 | .394 (10.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 820 | SXR821M025ST | 0.23 | 1120 | .472 (12.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 1000 | SXR102M025ST | 0.19 | 1320 | .472 (12.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 1200 | SXR122M025ST | 0.15 | 1400 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 1500 | SXR152M025ST | 0.13 | 1540 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 2200 | SXR222M025ST | 0.10 | 1980 | .472 (12.0) | 1.57 (40.0) | .197 (5.0) | .0236 (0.6) |
| 3300 | SXR332M025ST | 0.07 | 2030 | .630 (16.0) | 1.42 (36.0) | .295 (7.5) | .0315 (0.8) |
| 4700 | SXR472M025ST | 0.06 | 2460 | .709 (18.0) | 1.57 (40.0) | .295 (7.5) | .0315 (0.8) |

Type SXR 105 °C Long Life Aluminum Electrolytic Capacitors

Low ESR, High Ripple, Radial Leaded Aluminum Electrolytic Capacitors

| Cap (μ F) | Catalog Part Number | Max ESR | Max Ripple | Size in. (mm) | | | |
|----------------------------------|------------------------|----------------------------------|---------------------------|-----------------|---------------|-------------------|------------------|
| | | 100 kHz 25 °C (Ω) | 100 kHz 105 °C (mA) | Diameter (D) | Length (L) | Lead Space (S) | Lead Dia. (d) |
| 35 Vdc (44 Volts Surge) | | | | | | | |
| 100 | SXR101M035ST | 1.59 | 400 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 120 | SXR121M035ST | 1.33 | 510 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 150 | SXR151M035ST | 1.06 | 550 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 220 | SXR221M035ST | 0.72 | 650 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 330 | SXR331M035ST | 0.48 | 860 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 470 | SXR471M035ST | 0.34 | 1150 | .394 (10.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 680 | SXR681M035ST | 0.23 | 1320 | .472 (12.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 820 | SXR821M035ST | 0.19 | 1400 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 1000 | SXR102M035ST | 0.16 | 1540 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 1200 | SXR122M035ST | 0.13 | 1770 | .472 (12.0) | 1.38 (35.0) | .197 (5.0) | .0236 (0.6) |
| 1500 | SXR152M035ST | 0.12 | 1980 | .472 (12.0) | 1.57 (40.0) | .197 (5.0) | .0236 (0.6) |
| 2200 | SXR222M035ST | 0.08 | 2030 | .630 (16.0) | 1.40 (36.0) | .295 (7.5) | .0315 (0.8) |
| 3300 | SXR332M035ST | 0.47 | 2460 | .709 (18.0) | 1.57 (40.0) | .295 (7.5) | .0315 (0.8) |
| 50 Vdc (63 Volts Surge) | | | | | | | |
| 68 | SXR680M050ST | 1.95 | 400 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 100 | SXR101M050ST | 1.33 | 635 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 120 | SXR121M050ST | 1.11 | 650 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 150 | SXR151M050ST | 0.88 | 860 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 220 | SXR221M050ST | 0.60 | 1030 | .394 (10.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 330 | SXR331M050ST | 0.40 | 1150 | .394 (10.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 470 | SXR471M050ST | 0.28 | 1320 | .472 (12.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 680 | SXR681M050ST | 0.20 | 1770 | .472 (12.0) | 1.38 (35.0) | .197 (5.0) | .0236 (0.6) |
| 820 | SXR821M050ST | 0.16 | 1980 | .472 (12.0) | 1.57 (40.0) | .197 (5.0) | .0236 (0.6) |
| 1000 | SXR102M050ST | 0.13 | 1810 | .630 (16.0) | 1.26 (32.0) | .295 (7.5) | .0315 (0.8) |
| 1200 | SXR122M050ST | 0.11 | 2030 | .630 (16.0) | 1.40 (36.0) | .295 (7.5) | .0315 (0.8) |
| 1500 | SXR152M050ST | 0.10 | 2320 | .630 (16.0) | 1.57 (40.0) | .295 (7.5) | .0315 (0.8) |
| 63 Vdc (79 Volts Surge) | | | | | | | |
| 47 | SXR470M063ST | 2.26 | 305 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 68 | SXR680M063ST | 1.56 | 500 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 100 | SXR101M063ST | 1.06 | 550 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 120 | SXR121M063ST | 0.88 | 620 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 150 | SXR151M063ST | 0.71 | 795 | .394 (10.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 220 | SXR221M063ST | 0.48 | 890 | .472 (12.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 330 | SXR331M063ST | 0.32 | 1320 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 470 | SXR471M063ST | 0.23 | 1450 | .472 (12.0) | 1.38 (35.0) | .197 (5.0) | .0236 (0.6) |
| 680 | SXR681M063ST | 0.16 | 1790 | .630 (16.0) | 1.26 (32.0) | .295 (7.5) | .0315 (0.8) |
| 1000 | SXR102M063ST | 0.11 | 2200 | .709 (18.0) | 1.40 (36.0) | .295 (7.5) | .0315 (0.8) |
| 1200 | SXR122M063ST | 0.09 | 2370 | .709 (18.0) | 1.57 (40.0) | .295 (7.5) | .0315 (0.8) |
| 100 Vdc (125 Volts Surge) | | | | | | | |
| 22 | SXR220M100ST | 4.22 | 305 | .394 (10.0) | .472 (12.0) | .197 (5.0) | .0236 (0.6) |
| 33 | SXR330M100ST | 2.81 | 500 | .394 (10.0) | .630 (16.0) | .197 (5.0) | .0236 (0.6) |
| 47 | SXR470M100ST | 1.98 | 600 | .394 (10.0) | .787 (20.0) | .197 (5.0) | .0236 (0.6) |
| 68 | SXR680M100ST | 1.37 | 795 | .394 (10.0) | .984 (25.0) | .197 (5.0) | .0236 (0.6) |
| 100 | SXR101M100ST | 0.93 | 905 | .394 (10.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 120 | SXR121M100ST | 0.77 | 1040 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 150 | SXR151M100ST | 0.62 | 1200 | .472 (12.0) | 1.18 (30.0) | .197 (5.0) | .0236 (0.6) |
| 220 | SXR221M100ST | 0.42 | 1440 | .630 (16.0) | 1.26 (32.0) | .295 (7.5) | .0315 (0.8) |
| 330 | SXR331M100ST | 0.28 | 1790 | .709 (18.0) | 1.40 (36.0) | .295 (7.5) | .0315 (0.8) |

Type SXR 105 °C Long Life Aluminum Electrolytic Capacitors

Low ESR, High Ripple, Radial Led Aluminum Electrolytic Capacitors

Taping & Packaging

Fig. 1 - Formed Taping



Fig. 2 - Straight Taping (5φ, 6.3φ, 8φ)



Fig. 3 - Straight Taping (Under 10φ, 12φ, 13φ)



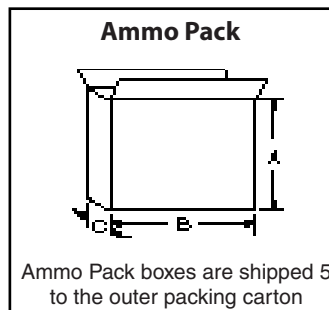
Fig. 4 - Straight Taping (16φ, 18φ)



Standard Lead Spacing of Taped Components is 5mm
Other Lead Spacing is Available by Special Order

| Code | D | A | d | P | P ₀ | P ₁ | P ₂ | F | W | W ₀ | H | H ₀ | D ₀ | t | ih | Fig. |
|-----------|---------|------|-------|------|----------------|----------------|----------------|--------------|------|----------------|-------|----------------|----------------|------|------|------|
| Tolerance | 0.5 | 1.0 | ±0.05 | ±1.0 | ±0.2 | ±0.7 | ±1.3 | +0.8 -0.2 | ±0.5 | Min. | ±0.75 | ±0.5 | ±0.2 | ±0.2 | Max. | |
| Item | 4 ~ 6.3 | 7.0 | 0.45 | 12.7 | 12.7 | 3.85 | 6.35 | 5.0 | 18.0 | 12.5 | 18.5 | 16.0 | 4.0 | 0.7 | 2.0 | 1 |
| | 5 ~ 8 | 12.5 | 0.5 | 12.7 | 12.7 | 3.85 | 6.35 | 5.0 | 18.0 | 12.5 | 18.5 | 16.0 | 4.0 | 0.7 | 2.0 | |
| | 5, 6.3 | 12.5 | 0.5 | 12.7 | 12.7 | 5.1 | 6.35 | 2.5 | 18.0 | 12.5 | 18.5 | — | 4.0 | 0.7 | 2.0 | |
| | 8 | 12.5 | 0.5 | 12.7 | 12.7 | 4.6 | 6.35 | 3.5 | 18.0 | 12.5 | 18.5 | — | 4.0 | 0.7 | 2.0 | |
| | 10 | 21.0 | 0.6 | 12.7 | 12.7 | 3.85 | 6.35 | 5.0 | 18.0 | 12.5 | 18.5 | — | 4.0 | 0.7 | 2.0 | 3 |
| 12, 13 | 26.0 | 0.6 | 15.0 | 15.0 | 5.0 | 7.5 | 5.0 | 18.0 | 12.5 | 18.5 | — | 4.0 | 0.7 | 2.0 | | |
| 16, 18 | 26.0 | 0.8 | 30.0 | 15.0 | 3.75 | 7.5 | 7.5 | 7.5 | 18.0 | 12.5 | 18.0 | — | 4.0 | 0.7 | 2.0 | 4 |

| Capacitor Diameter D (mm) | Ammo Pack Box Dimensions (mm) | | | Quantity Per Ammo Pack Box |
|---------------------------|-------------------------------|-------|-----|----------------------------|
| | A±5 | B Max | C±3 | |
| 4 | 250 | 340 | 54 | 3000 |
| 5 | 250 | 340 | 54 | 2,000 |
| 6.3 | 290 | 340 | 54 | 2,000 |
| 8 | 250 | 340 | 54 | 1,000 |
| 10 (12L) | 290 | 340 | 54 | 600 |
| 10 (16L) | 350 | 340 | 59 | 600 |
| 10 (20L) | 340 | 340 | 71 | 600 |
| 12, 13 | 340 | 340 | 71 | 400 |
| 16 | 340 | 340 | 71 | 300 |



| Tape And Reel Quantities | | |
|--------------------------|------------|------------------|
| Case Diameter D (mm) | Reel Width | Reel Qty. (Pcs.) |
| 4 | 44 | 1500 |
| 5 | 44 | 1200 |
| 6 | 44 | 1000 |
| 8 | 44 | 800 |
| 10 (12L) | 44 | 600 |
| 10 (16L) | 50 | 600 |
| 12, 13 | - | - |
| 16 | - | - |

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OBSOLETE

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