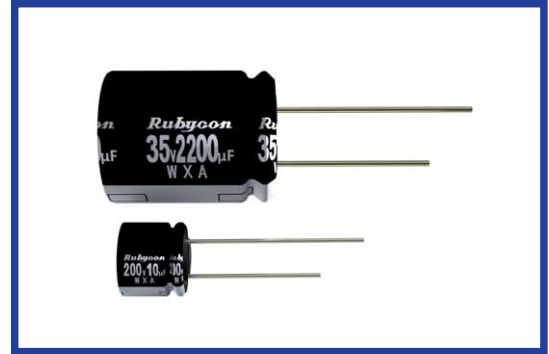


WXA SERIES
105°C 9mm~25mm Height

- Load Life : 105°C 2000 hours.
- AEC-Q200.


◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--------------------------|--|------|------|------|------|------|------|------|------|---------------------|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------------------|-----------|------|------|------|------|------|------|------|------|------|------|------|---------------|
| Category Temperature Range | -55~+105°C | -40~+105°C | -25~+105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~50Vdc | 160~250Vdc | 350~450Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | 6.3~50Vdc | | 160~450Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | I=0.01CV or 3µA whichever is greater. (After 2 minutes application of rated voltage) | | CV≤1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | CV>1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | I=0.1CV+40µA (1minute) | I=0.04CV+100µA (1minute) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | I=0.03CV+15µA (5minutes) | I=0.02CV+25µA (5minutes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | I=Leakage Current(µA) | C=Capacitance(µF) | V=Rated Voltage(Vdc) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>φ8, φ10</td> <td>0.30</td><td>0.26</td><td>0.20</td><td>0.18</td><td>0.14</td><td>0.12</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.25</td> </tr> <tr> <td></td> <td>φ12.5~φ18</td> <td>0.26</td><td>0.22</td><td>0.18</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.25</td> </tr> </tbody> </table> | | | | | | | | | | | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 | tanδ | φ8, φ10 | 0.30 | 0.26 | 0.20 | 0.18 | 0.14 | 0.12 | 0.20 | 0.20 | 0.20 | 0.20 | 0.25 | | φ12.5~φ18 | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.20 | 0.20 | 0.20 | 0.20 | 0.25 | (20°C, 120Hz) |
| | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tanδ | φ8, φ10 | 0.30 | 0.26 | 0.20 | 0.18 | 0.14 | 0.12 | 0.20 | 0.20 | 0.20 | 0.20 | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | φ12.5~φ18 | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.20 | 0.20 | 0.20 | 0.20 | 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | When capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Capacitance Change | | Within ±25% of the initial value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dissipation Factor | | Not more than 200% of the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Leakage Current | | Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th><th>10</th><th>16</th><th>25</th><th>35</th><th>50</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>3</td><td>3</td><td>6</td><td>6</td><td>6</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td> </tr> </tbody> </table> | | | | | | | | | | | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 | Z(-25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 6 | 6 | 6 | Z(-40°C)/Z(20°C) | 8 | 6 | 4 | 4 | 3 | 3 | - | - | - | - | - | - | (120Hz) |
| | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Z(-25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 6 | 6 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 8 | 6 | 4 | 4 | 3 | 3 | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | | 60(50) | 120 | 500 | 1k | 10k≤ |
|----------------|--------------|--------|------|------|------|------|
| Coefficient | 1.5~6.8µF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 10~68µF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 100~1000µF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |
| | 2200~10000µF | 0.80 | 1.00 | 1.05 | 1.10 | 1.15 |

◆OPTION

| | Code |
|------------|------|
| PET Sleeve | EFC |

◆PART NUMBER

WXA M DXL
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

