

AXW SERIES
◆FEATURES

- Load Life : 105°C 2000 hours.
- Body diameter of ϕ 10mm to ϕ 18mm with high ripple current capability.
- This series is two classes smaller than the current MXW series.
- RoHS compliance.


◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | |
|--|--|--------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|------|-----|
| Category Temperature Range | -25~+105°C | | | | | | | | |
| Rated Voltage Range | 200~450V.DC | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | |
| Leakage Current(MAX) | $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I =Leakage Current(μ A) C =Rated Capacitance(μ F) V =Rated Voltage(V) | | | | | | | | |
| Dissipation Factor(MAX) (tan δ) | <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>200~250</th> <th>400</th> <th>420~450</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.12</td> <td>0.15</td> <td>0.2</td> </tr> </tbody> </table> (20°C, 120Hz) | Rated Voltage (V) | 200~250 | 400 | 420~450 | tan δ | 0.12 | 0.15 | 0.2 |
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| tan δ | 0.12 | 0.15 | 0.2 | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 2000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table> | Capacitance Change | Within ±20% of the initial value. | Dissipation Factor | Not more than 200% of the specified value. | Leakage Current | Not more than the specified value. | | |
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| Dissipation Factor | Not more than 200% of the specified value. | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | |
| Impedance Ratio(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>200~250</th> <th>400~450</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>8</td> </tr> </tbody> </table> (120Hz) | Rated Voltage (V) | 200~250 | 400~450 | Z(-25°C)/Z(20°C) | 3 | 8 | | |
| Rated Voltage (V) | 200~250 | 400~450 | | | | | | | |
| Z(-25°C)/Z(20°C) | 3 | 8 | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

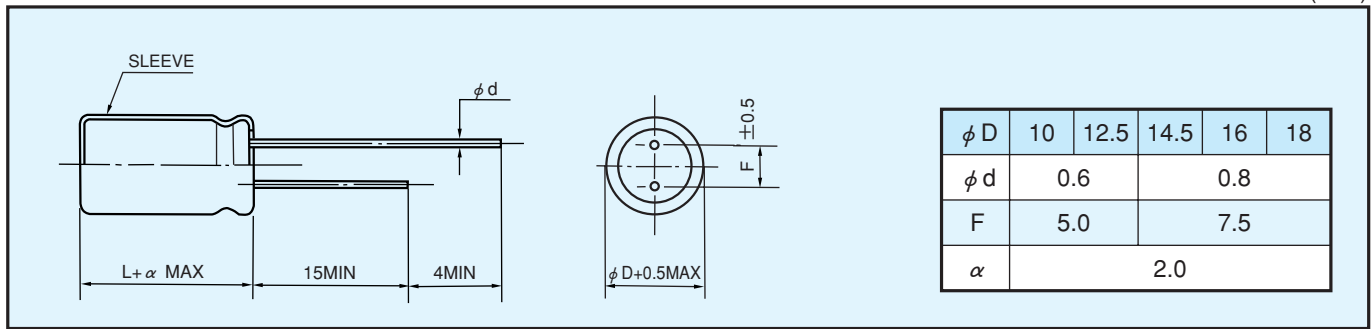
| Frequency (Hz) | 60(50) | 120 | 500 | 1k | 10k \leq |
|----------------|--------|-----|------|------|------------|
| Coefficient | | | | | |
| 200~250WV | 0.8 | 1.0 | 1.20 | 1.30 | 1.40 |
| 400~450WV | 0.8 | 1.0 | 1.25 | 1.40 | 1.50 |

◆PART NUMBER

| | | | | | | |
|---------------|--------|-------------------|-----------------------|--------|--------------|-----------|
| □□□ | AXW | □□□□□ | □ | □□□ | □□ | D×L |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

| Cap (μF) | WV ϕD | 200 | | | | | 220 | | | | |
|--------------------|----------------|---------------|---------------|-------------|-------------|-----------|-------------|---------------|-------------|-------------|-----------|
| | | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ |
| 56 | | | | | | | 10×30; 0.29 | | | | |
| 68 | 10×30; 0.35 | | | | | | 10×35; 0.33 | | | | |
| 82 | 10×35; 0.40 | | | | | | 10×40; 0.37 | | | | |
| 100 | 10×40; 0.46 | | | | | | | 12.5×30; 0.43 | | | |
| 120 | | 12.5×30; 0.53 | | | | | | 12.5×35; 0.49 | | | |
| 150 | | 12.5×35; 0.62 | | | | | | 12.5×40; 0.58 | | | |
| 180 | | 12.5×40; 0.70 | 14.5×30; 0.66 | | | | | 14.5×35; 0.68 | 16×30; 0.67 | | |
| 220 | | | 14.5×35; 0.80 | 16×30; 0.76 | 18×30; 0.81 | | | 14.5×40; 0.78 | 16×35; 0.77 | 18×30; 0.77 | |
| 270 | | | 14.5×40; 0.90 | 16×35; 0.88 | 18×30; 0.87 | | | | 16×40; 0.88 | 18×35; 0.88 | |
| 330 | | | | 16×40; 1.10 | 18×35; 1.01 | | | | | 18×40; 1.01 | |
| 390 | | | | | 18×40; 1.13 | | | | | 18×45; 1.13 | |
| 470 | | | | | 18×45; 1.27 | | | | | | |

| Cap (μF) | WV ϕD | 250 | | | | | 400 | | | | |
|--------------------|----------------|---------------|---------------|-------------|-------------|-----------|-------------|---------------|---------------|-------------|-------------|
| | | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ |
| 22 | | | | | | | 10×30; 0.21 | | | | |
| 27 | | | | | | | 10×35; 0.24 | | | | |
| 33 | | | | | | | 10×40; 0.28 | | | | |
| 39 | | | | | | | | 12.5×30; 0.32 | | | |
| 47 | 10×30; 0.27 | | | | | | | 12.5×35; 0.37 | | | |
| 56 | 10×35; 0.30 | | | | | | | 12.5×40; 0.42 | 14.5×30; 0.42 | | |
| 68 | 10×40; 0.35 | | | | | | | | 14.5×35; 0.48 | | |
| 82 | | 12.5×30; 0.40 | | | | | | | 14.5×35; 0.52 | 16×30; 0.50 | |
| 100 | | 12.5×35; 0.46 | | | | | | | | 16×35; 0.58 | 18×30; 0.58 |
| 120 | | 12.5×40; 0.53 | 14.5×30; 0.53 | | | | | | | 16×40; 0.66 | 18×35; 0.67 |
| 150 | | | 14.5×35; 0.62 | 16×30; 0.62 | | | | | | 18×40; 0.77 | |
| 180 | | | 14.5×40; 0.72 | 16×35; 0.72 | 18×30; 0.72 | | | | | 18×45; 0.88 | |
| 220 | | | | 16×40; 0.83 | 18×35; 0.83 | | | | | | |
| 270 | | | | | 18×40; 0.95 | | | | | | |
| 330 | | | | | 18×45; 1.07 | | | | | | |

| Cap (μF) | WV ϕD | 420 | | | | | 450 | | | | |
|--------------------|----------------|---------------|---------------|-------------|-------------|-----------|-------------|---------------|---------------|-------------|-------------|
| | | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ |
| 15 | | | | | | | 10×30; 0.15 | | | | |
| 18 | 10×30; 0.17 | | | | | | 10×35; 0.18 | | | | |
| 22 | 10×35; 0.20 | | | | | | 10×40; 0.21 | | | | |
| 27 | 10×40; 0.23 | | | | | | | 12.5×30; 0.25 | | | |
| 33 | | 12.5×30; 0.27 | | | | | | 12.5×35; 0.28 | | | |
| 39 | | 12.5×35; 0.31 | | | | | | 12.5×40; 0.32 | 14.5×30; 0.32 | | |
| 47 | | 12.5×40; 0.36 | 14.5×30; 0.36 | | | | | | 14.5×35; 0.38 | 16×30; 0.38 | |
| 56 | | | 14.5×35; 0.43 | 16×30; 0.43 | | | | | 14.5×40; 0.44 | 16×35; 0.44 | |
| 68 | | | 14.5×40; 0.51 | 16×35; 0.51 | 18×30; 0.51 | | | | | 16×40; 0.49 | 18×30; 0.48 |
| 82 | | | | 16×40; 0.57 | 18×30; 0.57 | | | | | | 18×35; 0.55 |
| 100 | | | | | 18×35; 0.61 | | | | | | 18×40; 0.65 |
| 120 | | | | | 18×40; 0.66 | | | | | | 18×45; 0.74 |

Please check with us about individual WV, Cap., size and dimensions.

Size $\phi D \times L$ (mm)
Ripple Current (A r.m.s./105°C, 120Hz)