

WA Series 125°C High Temperature(高温度)

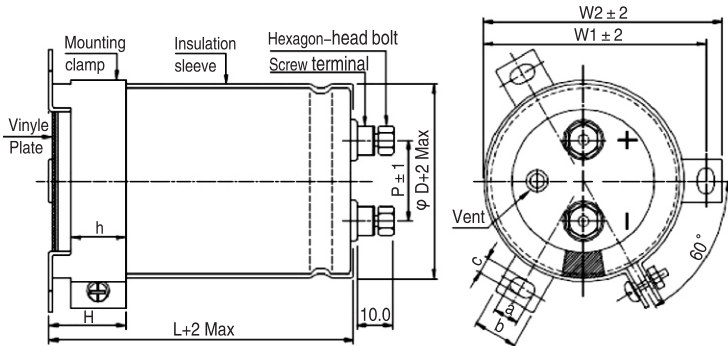


- High Temperature,+125°C
- Long Life,2000~2200 hours at 125°C(U_R,I_R applied)
- RoHS Compliant

SPECIFICATIONS AND CHARACTERISTICS IN BRIEF

| Item | Performance Characteristics | | | | | | | |
|--|---|--|--------------------|-----------|--------------------|----------|----------|---|
| Standard | IEC 60384-4 | | | | | | | |
| Temperature Range | -25°C to +125°C (Operating) -45°C to +125°C (Storage) | | | | | | | |
| Rated Working Voltage Range U _R | 200V to 450V | | | | | | | |
| Surge Voltage U _s | 1.10 x U _R | | | | | | | |
| Nominal Capacitance Range | 470μ F to 10000 μ F | | | | | | | |
| Capacitance Tolerance | ±20%(120HZ, +20°C) | | | | | | | |
| Leakage Current I _L | = 0.0065 x C _R x U _R (μA) or 6mA whichever is the smaller. Note, C _R is in μF. | Test Condition: U _R , 5mins., 20°C | | | | | | |
| Characteristics at low Temperature | Max. impedance ratio at 120 Hz | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">U_R (V)</td> <td style="text-align: center;">200 ~ 450</td> </tr> <tr> <td style="text-align: center;">Z -25 °C / Z 20 °C</td> <td style="text-align: center;">8</td> </tr> </table> | U _R (V) | 200 ~ 450 | Z -25 °C / Z 20 °C | 8 | | |
| U _R (V) | 200 ~ 450 | | | | | | | |
| Z -25 °C / Z 20 °C | 8 | | | | | | | |
| tan δ | The values shown in the standard ratings tables,at 120HZ,20°C, | | | | | | | |
| Operational Life Time +125°C, U _R , I _R | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>Can Diameter</td> <td></td> </tr> <tr> <td>35,51</td> <td>2000 hrs</td> </tr> <tr> <td>64,76,90</td> <td>2200 hrs</td> </tr> </table> | Can Diameter | | 35,51 | 2000 hrs | 64,76,90 | 2200 hrs | End of Life Requirement: ΔC/C ≤ ±20% tan δ ≤ 2 x initial tan δ value I _L ≤ initial specified limi |
| Can Diameter | | | | | | | | |
| 35,51 | 2000 hrs | | | | | | | |
| 64,76,90 | 2200 hrs | | | | | | | |
| +125°C, U _R | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>Can Diameter</td> <td></td> </tr> <tr> <td>35,51</td> <td>3800 hrs</td> </tr> <tr> <td>64,76,90</td> <td>4000 hrs</td> </tr> </table> | Can Diameter | | 35,51 | 3800 hrs | 64,76,90 | 4000 hrs | |
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| 35,51 | 3800 hrs | | | | | | | |
| 64,76,90 | 4000 hrs | | | | | | | |
| Shelf Life +105°C | After leaving capacitors under no load at 105°C for 1000 hours, Capacitors shall meet specified value for load life characteristics listed above. | | | | | | | |
| Others | If the capacitors are stored more than 1 year, the Leakage Current may increase. Please apply voltage through about 1 kΩ resistor, if necessary. | | | | | | | |

SPECIFICATIONS



Unit:mm

| ΦD | P | W1 | W2 | H | h | a | b | c |
|----|------|------|------|------|------|-----|------|-----|
| 51 | 22.0 | 61.0 | 65.5 | 21.0 | 15.0 | 7.0 | 12.0 | 4.5 |
| 64 | 28.6 | 72.5 | 78.0 | 25.0 | 20.0 | 7.0 | 14.0 | 4.5 |
| 77 | 32.0 | 85.5 | 91.0 | 35.0 | 20.0 | 8.0 | 16.0 | 4.5 |
| 90 | 32.0 | 101 | 106 | 34.5 | 20.0 | 8.0 | 16.0 | 5.0 |

Screw specifications:
Plus hexagon-headed screw:M5 x 0.8 x 10
Max.screw tightening torque:3.23Nm

RIPPLE CURRENT MULTIPLIER

| Freq(HZ) | 50 | 120 | 1K | 10K~ |
|-------------|------|------|------|------|
| Coefficient | 0.80 | 1.00 | 1.15 | 1.20 |

WA Series 125°C High Temperature(高温度)

STANDARD RATINGS

| Voltage (V) | 200 | | | 250 | | | 350 | | | |
|-------------|----------|-----------|-------|----------------|-----------|-------|----------------|-----------|-------|----------------|
| | Cap (μF) | Case Size | tan δ | Ripple Current | Case Size | tan δ | Ripple Current | Case Size | tan δ | Ripple Current |
| 470 | | | | | 35×80 | 0.15 | 0.6 | | | |
| 560 | | | | | 35×80 | 0.15 | 0.7 | | | |
| 680 | | 35×80 | 0.15 | 0.8 | 35×100 | 0.15 | 0.8 | | | |
| 820 | | 35×80 | 0.15 | 0.9 | 35×100 | 0.15 | 1.0 | 51×80 | 0.25 | 2.3 |
| 1000 | | 35×80 | 0.15 | 1.1 | 35×120 | 0.15 | 1.1 | 51×80 | 0.25 | 2.7 |
| 1200 | | 35×100 | 0.15 | 1.2 | 51×80 | 0.15 | 1.3 | 51×100 | 0.25 | 3.2 |
| 1500 | | 35×120 | 0.15 | 1.3 | 51×100 | 0.15 | 1.5 | 51×100 | 0.25 | 3.6 |
| 1800 | | 35×120 | 0.15 | 1.5 | 51×120 | 0.15 | 1.8 | 51×120 | 0.25 | 4.4 |
| 2200 | | 51×80 | 0.15 | 1.9 | 51×120 | 0.15 | 2.0 | 64×90 | 0.25 | 4.9 |
| 2700 | | 51×100 | 0.15 | 2.2 | 64×100 | 0.15 | 2.3 | 64×110 | 0.25 | 5.9 |
| 3300 | | 51×120 | 0.15 | 2.5 | 64×120 | 0.15 | 2.8 | 64×120 | 0.25 | 6.9 |
| 3900 | | 64×100 | 0.15 | 2.8 | 76×100 | 0.15 | 3.1 | 64×140 | 0.25 | 8.1 |
| 4700 | | 64×120 | 0.15 | 3.3 | 76×120 | 0.15 | 3.6 | 76×120 | 0.25 | 8.8 |
| 5600 | | 76×100 | 0.15 | 3.7 | 76×140 | 0.15 | 4.3 | 76×150 | 0.25 | 10.3 |
| 6800 | | 76×120 | 0.15 | 4.4 | 90×140 | 0.15 | 5.2 | 76×170 | 0.25 | 11.8 |
| 8200 | | 76×140 | 0.20 | 4.5 | | | | 76×190 | 0.25 | 13.7 |
| 10000 | | 90×140 | 0.20 | 5.4 | | | | 90×190 | 0.25 | 16.1 |

Maximum Allowable Ripple Current (A rms) at 125 °C 120HZ

Case Size ΦD×L(mm)

| Voltage (V) | 400 | | | 450 | | | | | | |
|-------------|----------|-----------|-------|----------------|-----------|-------|----------------|--|--|--|
| | Cap (μF) | Case Size | tan δ | Ripple Current | Case Size | tan δ | Ripple Current | | | |
| 680 | | 51×80 | 0.25 | 2.1 | | | | | | |
| 820 | | 51×80 | 0.25 | 2.7 | | | | | | |
| 1200 | | 51×100 | 0.25 | 3.3 | 51×120 | 0.25 | 3.5 | | | |
| 1500 | | 51×120 | 0.25 | 3.6 | 51×120 | 0.25 | 4.1 | | | |
| 1800 | | 64×90 | 0.25 | 4.4 | 64×110 | 0.25 | 4.4 | | | |
| 2200 | | 64×110 | 0.25 | 5.3 | 64×120 | 0.25 | 5.2 | | | |
| 2700 | | 64×120 | 0.25 | 6.2 | 64×140 | 0.25 | 6.0 | | | |
| 3300 | | 64×140 | 0.25 | 7.4 | 64×150 | 0.25 | 7.1 | | | |
| 3900 | | 76×110 | 0.25 | 6.9 | 76×120 | 0.25 | 8.2 | | | |
| 4700 | | 64×150 | 0.25 | 8.3 | 76×170 | 0.25 | 9.0 | | | |
| 5600 | | 76×170 | 0.25 | 9.4 | 76×190 | 0.25 | 10.8 | | | |
| 6800 | | 76×190 | 0.25 | 12.5 | 90×190 | 0.25 | 12.6 | | | |
| 8200 | | 90×190 | 0.25 | 14.1 | 90×220 | 0.25 | 13.9 | | | |
| 10000 | | 90×220 | 0.25 | 15.2 | | | | | | |

Maximum Allowable Ripple Current (A rms) at 125 °C 120HZ

Case Size ΦD×L(mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.