

Surface Mount Aluminum Electrolytic

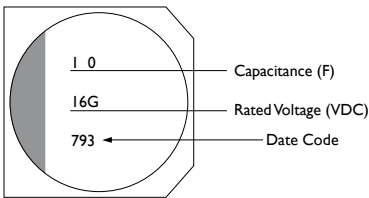
CB [For General]



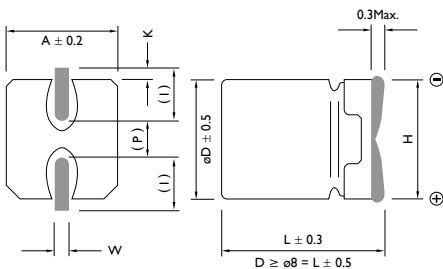
FEATURE

For General Purposes Series with 105°C 1000 Hours
 Suitable for AV (TV, Video, Audio) Monitor / Computer,
 OA / HA / Communication

MARKING



DIMENSIONS



() Reference Size

ELECTRICAL CHARACTERISTICS

| | | | | | | | | | | |
|-----------------------------|---|----|-----|----|----|----|----|----|----|-----|
| Operation Temperature Range | -40 to +105°C | | | | | | | | | |
| Rated Voltage Range | 4 to 100VDC | | | | | | | | | |
| Rated Capacitance Range | 0.1 ~ 1000µF | | | | | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | | | | | | | | | |
| Leakage Current (Max. 20°C) | I ≤ 0.01 CV (µA) or 3µA Whichever is greater. (After 2 Minutes Application of DC Rated Working Voltage at 20°C) | | | | | | | | | |
| Low Temperature Stability | Impedance Ratio at 120Hz | | | | | | | | | |
| | WV (V) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | Z (-25°C) / Z (+20°C) | 7 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Z (-40°C) / Z (+20°C) | 15 | 8 | 6 | 4 | 4 | 3 | 3 | 3 | 3 |
| Endurance | After 1000 hours application of WV at 105°C, the capacitors shall meet following requirements. (a) Capacitance Change: Within ±20% of the Initial Value (b) Dissipation Factor: Not Exceeding 200% of Specified Value (c) Leakage Current: Not Exceeding the Specified Value | | | | | | | | | |
| Shelf Life | After having been placed at 105°C without voltage applied for 1000 hours, the capacitors shall meet the same requirements as Endurance. | | | | | | | | | |

Unit: mm

| SIZE CODE | Dø | L | A | H | I | W | P | K |
|-----------|------|------|------|-----------|-----|------------|-----------|--|
| B | 4.0 | 5.4 | 4.3 | 5.5 Max. | 1.8 | 0.65 ± 0.1 | 1.0 ± 0.2 | 0.35 ^{+ 0.15} _{- 0.20} |
| C | 5.0 | 5.4 | 5.3 | 6.5 Max. | 2.2 | 0.65 ± 0.1 | 1.5 ± 0.2 | 0.35 ^{+ 0.15} _{- 0.20} |
| D | 6.3 | 5.4 | 6.6 | 7.8 Max. | 2.6 | 0.65 ± 0.1 | 1.8 ± 0.2 | 0.35 ^{+ 0.15} _{- 0.20} |
| E | 8.0 | 6.5 | 8.3 | 9.5 Max. | 3.4 | 0.65 ± 0.1 | 2.2 ± 0.2 | 0.35 ^{+ 0.15} _{- 0.20} |
| F | 8.0 | 10.5 | 8.3 | 10.0 Max. | 3.4 | 0.90 ± 0.2 | 3.1 ± 0.2 | 0.70 ± 0.20 |
| G | 10.0 | 10.5 | 10.3 | 12.0 Max. | 3.5 | 0.90 ± 0.2 | 4.6 ± 0.2 | 0.70 ± 0.20 |
| H | 6.3 | 7.7 | 6.6 | 7.8 Max. | 2.6 | 0.65 ± 0.1 | 1.8 ± 0.2 | 0.35 ^{+ 0.15} _{- 0.20} |

CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

CAP. RATED VOLTAGE WV (SURGE VOLTAGE WV)

| (μF) | 4 (5) | | | 6.3 (8) | | | 10 (13) | | | 16 (20) | | |
|------|-----------|----------------|--------------------|-----------|----------------|--------------------|-----------|----------------|--------------------|-----------|----------------|--------------------|
| | SIZE | RIPPLE CURRENT | DISSIPATION FACTOR | SIZE | RIPPLE CURRENT | DISSIPATION FACTOR | SIZE | RIPPLE CURRENT | DISSIPATION FACTOR | SIZE | RIPPLE CURRENT | DISSIPATION FACTOR |
| 4.7 | | | | | | | | | | 4 x 5.4 | 20 | 0.16 |
| 10 | | | | | | | 4 x 5.4 | 24 | 0.30 | 4 x 5.4 | 28 | 0.16 |
| 22 | 4 x 5.4 | 20 | 0.35 | 4 x 5.4 | 29 | 0.30 | 4 x 5.4 | 36 | 0.30 | 5 x 5.4 | 39 | 0.16 |
| 33 | 4 x 5.4 | 26 | 0.35 | 4 x 5.4 | 43 | 0.30 | 4 x 5.4 | 45 | 0.30 | 6.3 x 5.4 | 65 | 0.20 |
| 47 | 4 x 5.4 | 34 | 0.35 | 5 x 5.4 | 46 | 0.30 | 5 x 5.4 | 55 | 0.30 | 6.3 x 5.4 | 70 | 0.20 |
| | | | | | | | 6.3 x 5.4 | 70 | 0.30 | 6.3 x 7.7 | 125 | 0.20 |
| 100 | 5 x 5.4 | 61 | 0.35 | 5 x 5.4 | 58 | 0.35 | 8 x 6.5 | 110 | 0.30 | 6.3 x 5.4 | 100 | 0.20 |
| | | | | 6.3 x 5.4 | 71 | 0.35 | | | | 6.3 x 7.7 | 98 | 0.20 |
| | | | | | | | | | | 8 x 6.5 | 130 | 0.20 |
| 220 | 6.3 x 5.4 | 82 | 0.35 | 6.3 x 5.4 | 95 | 0.35 | 6.3 x 7.7 | 115 | 0.30 | 6.3 x 7.7 | 100 | 0.20 |
| | | | | 6.3 x 7.7 | 120 | 0.35 | 8 x 10.5 | 160 | 0.26 | 10 x 10.5 | 210 | 0.20 |
| | | | | 8 x 6.5 | 130 | 0.35 | | | | | | |
| 330 | | | | 6.3 x 7.7 | 175 | 0.35 | 10 x 10.5 | 230 | 0.26 | 10 x 10.5 | 230 | 0.20 |
| | | | | 8 x 10.5 | 230 | 0.35 | | | | | | |
| 470 | | | | 10 x 10.5 | 260 | 0.35 | 10 x 10.5 | 270 | 0.26 | 8 x 10.5 | 230 | 0.20 |
| | | | | | | | | | | | 10 x 10.5 | 275 |
| 1000 | | | | 10 x 10.5 | 380 | 0.35 | 10 x 10.5 | 390 | 0.26 | | | |

Note: 1. Ripple Current: (mA/rms) 105°C, 120Hz

2. Dissipation Factor: 20°C, 120Hz



CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D × L: mm

| CAP. (μF) | RATED VOLTAGE WV (SURGE VOLTAGE WV) | | | | | | | | |
|-----------|-------------------------------------|----------------|--------------------|-----------|----------------|--------------------|-----------|----------------|--------------------|
| | 25 (32) | | | 35 (44) | | | 50 (63) | | |
| | SIZE | RIPPLE CURRENT | DISSIPATION FACTOR | SIZE | RIPPLE CURRENT | DISSIPATION FACTOR | SIZE | RIPPLE CURRENT | DISSIPATION FACTOR |
| 0.10 | | | | | | | 4 × 5.4 | 1 | 0.12 |
| 0.22 | | | | | | | 4 × 5.4 | 2 | 0.12 |
| 0.33 | | | | | | | 4 × 5.4 | 3 | 0.12 |
| 0.47 | | | | | | | 4 × 5.4 | 5 | 0.12 |
| 1.0 | | | | | | | 4 × 5.4 | 10 | 0.12 |
| 2.2 | | | | 4 × 5.4 | 15 | 0.12 | 4 × 5.4 | 16 | 0.12 |
| 3.3 | | | | 4 × 5.4 | 18 | 0.12 | 4 × 5.4 | 16 | 0.12 |
| 4.7 | 4 × 5.4 | 22 | 0.14 | 4 × 5.4 | 22 | 0.12 | 5 × 5.4 | 23 | 0.12 |
| 10 | 4 × 5.4 | 23 | 0.14 | 5 × 5.4 | 30 | 0.12 | 6.3 × 5.4 | 35 | 0.12 |
| | 5 × 5.4 | 28 | 0.14 | | | | | | |
| 22 | 5 × 5.4 | 45 | 0.14 | 6.3 × 5.4 | 60 | 0.14 | 6.3 × 7.7 | 65 | 0.12 |
| | 6.3 × 5.4 | 55 | 0.14 | | | | 8 × 6.5 | 70 | 0.12 |
| 33 | 6.3 × 5.4 | 65 | 0.16 | 8 × 6.5 | 84 | 0.14 | 6.3 × 7.7 | 70 | 0.12 |
| | | | | | | | 8 × 10.5 | 91 | 0.12 |
| 47 | 6.3 × 5.4 | 65 | 0.16 | 6.3 × 7.7 | 72 | 0.14 | 6.3 × 7.7 | 65 | 0.12 |
| | 8 × 6.5 | 91 | 0.16 | 8 × 6.5 | 76 | 0.14 | 10 × 10.5 | 100 | 0.12 |
| | | | | 8 × 10.5 | 98 | 0.14 | | | |
| 100 | 6.3 × 7.7 | 95 | 0.16 | 6.3 × 7.7 | 105 | 0.14 | 8 × 10.5 | 120 | 0.12 |
| | 8 × 6.5 | 100 | 0.16 | 8 × 10.5 | 130 | 0.14 | 10 × 10.5 | 145 | 0.12 |
| | 8 × 10.5 | 130 | 0.16 | 10 × 10.5 | 160 | 0.14 | | | |
| 220 | 8 × 10.5 | 220 | 0.16 | 10 × 10.5 | 240 | 0.14 | | | |
| | 10 × 10.5 | 273 | 0.16 | | | | | | |
| 330 | | | | | | | | | |
| 470 | 10 × 10.5 | 570 | 0.16 | | | | | | |

Note: 1. Ripple Current: (mA/rms) 105°C, 120Hz

2. Dissipation Factor: 20°C, 120Hz

CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

| CAP. (μ F) | RATED VOLTAGE WV (SURGE VOLTAGE WV) | | | | | |
|-----------------|-------------------------------------|-------------------|-----------------------|-------------------|-------------------|-----------------------|
| | 63 (79) SIZE | | | 100 (125) SIZE | | |
| | | RIPPLE CURRENT | DISSIPATION FACTOR | | RIPPLE CURRENT | DISSIPATION FACTOR |
| 3.3 | | | | 8 x 10.5 | 30 | 0.18 |
| 4.7 | 6.3 x 5.4 | 20 | 0.18 | 8 x 10.5 | 50 | 0.18 |
| 10 | 6.3 x 5.4 | 20 | 0.18 | 8 x 10.5 | 55 | 0.18 |
| 22 | 8 x 10.5 | 30 | 0.18 | 10 x 10.5 | 60 | 0.18 |
| 33 | 8 x 10.5 | 30 | 0.18 | 10 x 10.5 | 65 | 0.18 |
| 47 | 8 x 10.5 | 30 | 0.18 | | | |
| 100 | 10 x 10.5 | 60 | 0.18 | | | |

Note: 1. Ripple Current: (mA/rms) 105°C, 120Hz
 2. Dissipation Factor: 20°C, 120Hz

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