

Datasheet Aluminium Electrolytic Capacitor

RS Stock number 707-6675



Specifications:

| ltem | Performance Characteristics | | | | | | | | | | | | | | |
|--|--|---|----|----|----|----|----|-------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Operating Temperature Range | -40 to +105°C | | | | | | | -25 to +105°C | | | | | | | |
| Rated Voltage Range | 10 to 100 VDC | | | | | | | 160 to 450 VDC | | | | | | | |
| Capacitance Tolerance | | + 20% (120Hz, +20°C) | | | | | | | | | | | | | |
| Leakage Current (at | | 10V ~ 100V DC 160V ~ 450V DC | | | | | | | | C | 7 | | | | |
| 20°C) | I <u><</u> 0.02CV + 3 (μA) | | | | | | | I <u><</u> 0.05CV + 4 (μA) | | | | | | | |
| | C: Rate V: Wor | I: Leakage current (μA) C: Rated capacitance (μF) V: Working voltage (V) After 5 minutes applying the DC working voltage | | | | | | | | | | | | | |
| Surge Voltage (20°C) | W.V | 10 | 16 | 25 | 35 | 50 | 60 | 100 | 160 | 160 | 200 | 250 | 350 | 400 | 450 |
| | S.V | 13 | 20 | 32 | 44 | 63 | 79 | 125 | 200 | 200 | 250 | 300 | 400 | 450 | 500 |
| Dissipation Factor (120Hz, 20°C) | W.V | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 |] |
| | Tan g | | | | | | | | | | | | | | |
| | For capacitance > 1000 μ F, add 2% per another 1000 μ (+20°C at 120Hz) | | | | | | | | | | | | | | |

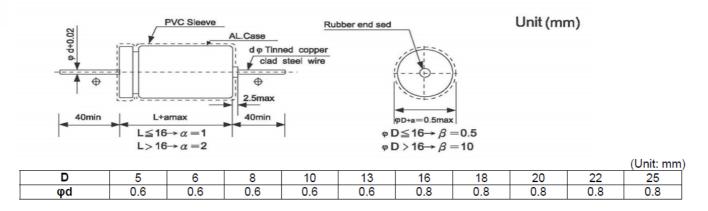
RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



Specifications:

| Item | Performance Characteristics | | | | | | | | | | | | | |
|-----------------|--|--------------|------------------------------------|--|----------|----------|---------|---------|-----|-------|-----|-----|-----|-----|
| Temperature | Impedance ratio max. | | | | | | | | | | | | | |
| Characteristics | W.V | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 ' | 250 | 350 | 400 | 450 |
| | -25°C/+20°C | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 8 | 8 | 8 | 12 | 15 | 16 |
| | -40°C/+20°C | 8 | 6 | 4 | 3 | 3 | 3 | 3 | 6 | 6 | 10 | - | - | - |
| Load Test | After 1000 hours application of W.V at +105°C. The capacitor shall meet the following limits. | | | | | | | | | | | | | |
| | Capacitance C | | <u>< +</u> 20% of initial value | | | | | | | | | | | |
| | Tang | | _ ≤ | <u>< +</u> 20% of initial specified value | | | | | | | | | | |
| | Leakage Curre | ent | | <u>< +</u> | initial | specifi | ed valı | Je |] | | | | | |
| Shelf Test | Shelf Test After 500 hours application of W.V AT +105°C. This capacitor shall meet the following limits. | | | | | | | | | | | | | |
| | Capacitance | e <u>-</u> | <u>< +</u> 20% | % of in | itial va | lue | | | | | | | | |
| | Tang | 4 | <u>< +</u> 200 |)% of i | nitial s | pecifie | d value | | | | | | | |
| | Leakage Curr | ent | 4 | <u>< +</u> 200 |)% of i | nitial s | pecifie | d value | | | | | | |
| | | | | | | | | | | | | | | |

Diagram of Dimensions:



RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



Features:

- Used in communication equipment's, switching power supply, etc.
- Safety vent construction design

Ripple Current & Frequency Multipliers

| Freq.(Hz) Cap.(μF) | 50(60) | 120 | 500 | 1К | 10KUP |
|-----------------------|--------|------|------|------|-------|
| Under 100 | 0.70 | 1.00 | 1.30 | 1.40 | 1.50 |
| 100 < C≦1000 | 0.75 | 1.00 | 1.20 | 1.30 | 1.35 |
| 1000 up above | 0.80 | 1.00 | 1.10 | 1.12 | 1.15 |

| Case Size | | | | | | | | | | | | | ØDx | L (mm) |
|-----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|------------------|
| WV UF | 1 | 0 | 1 | 6 | 25 | | 35 | | 50 | | 63 | | 100 | |
| | Size | Ripple |
| 0.47 | | | | | | | | | 6x13 | 8 | 6x13 | 8 | 6x13 | 10 |
| 1 | | | | | | | | | 6x13 | 12 | 6x13 | 12 | 6x13 | 14 |
| 2.2 | | | | | | | | - | 6x13 | 18 | 6x13 | 20 | 6x13 | 22 |
| 3.3 | | | | | | | | | 6x13 | 23 | 6x13 | 24 | 6x13 | 27 |
| 4.7 | | | | | | | | - | 6x13 | 27 | 6x13 | 29 | 6x13 | 34 |
| 10 | | | | - | 6x13 | 40 | 6x13 | 40 | 6x13 | 40 | 6x13 | 48 | 8x16 | 58 |
| 22 | | | | - | 6x13 | 48 | 6x13 | 59 | 6x13 | 62 | 6x13 | 81 | 8x20 | 100 |
| 33 | | → | 6x13 | 58 | 6x13 | 65 | 6x13 | 69 | 8x16 | 88 | 8x16 | 99 | 8x20 | 135 |
| 47 | 6x13 | 60 | 6x13 | 73 | 6x13 | 77 | 6x13 | 105 | 8x16 | 115 | 8x16 | 138 | 10x21 | 150 |
| 100 | 6x13 | 98 | 6x16 | 102 | 8x16 | 140 | 8x16 | 205 | 8x16 | 252 | 10x21 | 280 | 13x22 | 300 |
| 220 | 8x16 | 170 | 8x16 | 220 | 8x16 | 260 | 8x16 | 305 | 10x20 | 320 | 13x22 | 394 | 16x28 | 505 |
| 330 | 8x16 | 243 | 8x16 | 250 | 10x21 | 320 | 10x21 | 350 | 13x22 | 415 | 13x26 | 505 | 16x33 | <mark>660</mark> |
| 470 | 8x16 | 315 | 10x17 | 385 | 10x21 | 420 | 13x22 | 530 | 13x26 | 640 | 16x26 | 715 | 18x36 | 875 |
| 1000 | 10x21 | 480 | 13x22 | 615 | 13x26 | 760 | 13x26 | 820 | 16x33 | 955 | 16x36 | 1150 | | |
| 2200 | 13x22 | 940 | 13x26 | 1000 | 16x28 | 1050 | 16x36 | 1165 | 18x36 | 1680 | 22x42 | 1980 | | |
| 3300 | 13x26 | 1150 | 16x33 | 1340 | 16x36 | 1500 | 18x36 | 1800 | 22x42 | 2080 | | | | |
| 4700 | 16x28 | 1400 | 16x36 | 1580 | 18x36 | 1980 | 22x42 | 2100 | | | | | | |
| | | | | | | | | | | | | | | |

Ripple Current(mA, rms)at 105 120Hz

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



Case size:

| wv | 10 | 60 | 20 | 00 | 2 | 50 | 3 | 50 | 400 | | 4 | 50 | |
|------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--|
| UF | Size | Ripple | |
| 0.47 | 6x13 | 10 | 6x13 | 10 | 6x13 | 10 | 6x13 | 10 | 6x16 | 10 | 6x16 | 10 | |
| 1 | 6x13 | 10 | 6x16 | 10 | 6x16 | 11 | 8x16 | 11 | 8x16 | 13 | 8x16 | 13 | |
| 2.2 | 8x16 | 16 | 8x16 | 16 | 8x16 | 21 | 10x17 | 26 | 10x17 | 32 | 10x17 | 32 | |
| 3.3 | 8x16 | 26 | 10x17 | 26 | 10x17 | 26 | 10x17 | 30 | 10x21 | 33 | 10x21 | 33 | |
| 4.7 | 8x16 | 36 | 10x17 | 38 | 10x17 | 40 | 10x21 | 49 | 13x22 | 52 | 13x22 | 52 | |
| 10 | 10x21 | 60 | 10x21 | 68 | 10x21 | 78 | 13x22 | 84 | 13x24 | 86 | 16x28 | 90 | |
| 22 | 13x22 | 82 | 13x22 | 92 | 13x27 | 92 | 16x33 | 86 | 16x33 | 86 | 16x33 | 91 | |
| 33 | 13x22 | 105 | 16x28 | 116 | 16x33 | 116 | 16x36 | 116 | 18x36 | 135 | | | |
| 47 | 16x28 | 175 | 16x33 | 238 | 16x33 | 238 | 16x36 | 238 | | | | | |
| 100 | 16x33 | 410 | 18x36 | 460 | 18x36 | 460 | | | | | | | |
| 220 | 22x42 | 515 | 22x42 | 585 | | | | | | | | | |

Ripple Current(mA, rms)at 105 120Hz