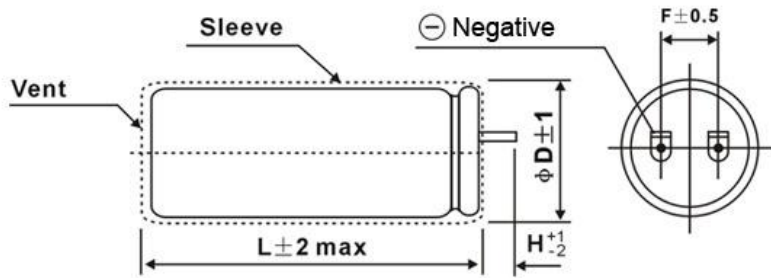




## FEATURES

- Compliant to the RoHS directive.
- 2000 hours at 85°C
- Compact and light weight. Small size.
- suitable for filter circuit, such as: power supply input filter or TV sets etc.

## DIMENSIONS (mm)



|    |     |    |    |    |    |
|----|-----|----|----|----|----|
| ΦD | 22  | 25 | 30 | 35 | 40 |
| F  | 8.5 | 10 | 14 | 14 | 14 |
| H  | 10  | 12 | 12 | 12 | 12 |

## SPECIFICATIONS

| Item                                       | Performance Characteristics   |   |     |      |               |          |           |           |
|--|---|---|-----|------|---------------|----------|-----------|-----------|
| Operation Temperature Range                | - 40 ~ +85 °C   |   |     |      | - 25 ~ +85 °C |          |           |           |
| Rated Working Voltage                      | 10 ~ 100 VDC  |   |     |      | 160 ~ 450 VDC |          |           |           |
| Capacitance Range                          | 47uF ~ 22000uF  |   |     |      |               |          |           |           |
| Normal Capacitance Tolerance               | ±20% (120Hz, 20°C)  |   |     |      |               |          |           |           |
| Leakage Current                            | I ≅ 3√CV or less after 5min, application of rated voltage.<br>C : Capacitance (μF) / V : Voltage (V)  |   |     |      |               |          |           |           |
| Dissipation Factor (tanδ)<br>(120Hz 20°C)  | Rated Voltage   | 10 ~ 16                                 | 25  | 35   | 50            | 63 ~ 100 | 160 ~ 250 | 350 ~ 450 |
|  | tanδ(max.)  | 0.5                                     | 0.4 | 0.35 | 0.3           | 0.25     | 0.15      | 0.2       |
| Low Temperature Characteristics<br>(120Hz) | Rated Voltage (V)   | 16 ~ 100                                |     |      | 160 ~ 250     |          | 350 ~ 450 |           |
|  | -25°C / +20°C   | 4                                       |     |      | 3             |          | 8         |           |
|  | -40°C / +20°C   | 15                                      |     |      | 12            |          | -         |           |
| Load Life                                  | After 2,000 hours application of rated voltage at +85°C, capacitors meet the characteristics requirements mentioned below.  |   |     |      |               |          |           |           |
|  | Capacitance Change  | Within 20% of initial value             |     |      |               |          |           |           |
|  | tanδ  | 200% or less of initial specified value |     |      |               |          |           |           |
|  | Leakage Current   | Initial specified value or less value   |     |      |               |          |           |           |
| Shelf Life                                 | After leaving Capacitors under no load at 85°C for 500hours and applying voltage according to JIS C-5102 4-3, they meet the specified value for load life characteristics listed above. |   |     |      |               |          |           |           |

**CASE SIZE & Max RIPPLE CURRENT Dimension Diameter (OD)×Length(L) mm**

\* Allowable Ripple at 85°C, 120Hz

| WV(SV) | 10V   |        | 16V   |      | 25V   |      | 35V   |      | 50V   |      | 63V   |      | 100V  |      |
|--------|-------|--------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|        | Case  | Ripple |       |      |       |      |       |      |       |      |       |      |       |      |
| 1000   |       |        |       |      |       |      |       |      |       |      |       |      | 22*30 | 1500 |
|        |       |        |       |      |       |      |       |      |       |      |       |      | 22*25 | 1500 |
| 1500   |       |        |       |      |       |      |       |      |       |      |       |      | 22*40 | 1950 |
|        |       |        |       |      |       |      |       |      |       |      |       |      | 25*30 | 1900 |
| 2200   |       |        |       |      |       |      |       |      | 22*25 | 1850 | 22*30 | 2300 | 22*50 | 2650 |
|        |       |        |       |      |       |      |       |      |       |      | 25*25 | 2300 | 25*40 | 2600 |
| 3300   |       |        |       |      |       |      | 22*25 | 2200 | 22*35 | 2350 | 22*40 | 2750 | 30*40 | 3450 |
|        |       |        |       |      |       |      |       |      | 25*25 | 2350 | 25*35 | 2800 | 35*35 | 3450 |
| 4700   |       |        |       |      | 22*25 | 1900 | 22*30 | 2400 | 22*40 | 2800 | 22*50 | 3300 | 35*40 | 4300 |
|        |       |        |       |      |       |      | 25*25 | 2400 | 25*35 | 2800 | 25*40 | 3250 |       |      |
| 6800   |       |        | 22*25 | 2500 | 22*35 | 2550 | 22*40 | 2950 | 22*50 | 3800 | 30*40 | 4200 |       |      |
|        |       |        |       |      | 25*25 | 2550 | 25*35 | 2950 | 25*40 | 3800 | 35*40 | 4150 |       |      |
| 10000  |       |        | 22*30 | 2850 | 22*45 | 3400 | 25*45 | 4000 | 30*45 | 4750 | 35*40 | 5200 |       |      |
|        |       |        | 25*25 | 2850 | 25*35 | 3400 | 30*35 | 4000 | 35*35 | 4700 |       |      |       |      |
| 15000  | 22*30 | 2760   | 22*40 | 3700 | 25*45 | 3750 | 30*45 | 5000 | 35*45 | 5900 |       |      |       |      |
|        |       |        | 25*35 | 3750 | 30*35 | 4450 | 35*45 | 5000 |       |      |       |      |       |      |
| 22000  | 22*40 | 3550   | 25*45 | 4800 | 30*50 | 5800 | 35*50 | 6250 |       |      |       |      |       |      |
|        | 25*30 | 3480   | 30*35 | 4800 | 35*40 | 5750 |       |      |       |      |       |      |       |      |

**CASE SIZE & Max RIPPLE CURRENT Dimension Diameter (OD)×Length(L) mm**

**\* Allowable Ripple at 85°C, 120Hz**

| WV(SV)   | 160V  |      | 200V  |      | 250V  |      | 350V  |      | 400V  |      | 450V  |      |
|----------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| CAP (μF) | 160V  |      | 200V  |      | 250V  |      | 350V  |      | 400V  |      | 450V  |      |
| 47       |       |      |       |      |       |      |       |      | 22*20 | 220  | 22*25 | 260  |
| 100      |       |      |       |      |       |      | 22*25 | 860  | 22*30 | 650  | 22*40 | 440  |
|          |       |      |       |      |       |      |       |      | 25*25 | 650  | 25*35 | 440  |
| 150      |       |      |       |      |       |      | 22*35 | 1140 | 22*40 | 900  | 25*45 | 590  |
|          |       |      |       |      |       |      |       |      | 25*30 | 850  | 30*35 | 580  |
| 220      |       |      | 22*25 | 1100 | 22*30 | 1150 | 22*45 | 1140 | 22*50 | 1150 | 30*45 | 760  |
|          |       |      |       |      | 25*25 | 1150 | 25*35 | 1140 | 25*40 | 1100 | 35*35 | 740  |
| 330      | 22*25 | 1300 | 22*30 | 1400 | 22*40 | 1450 | 25*50 | 1880 | 30*45 | 1500 | 35*45 | 1000 |
|          |       |      | 25*25 | 1400 | 25*30 | 1450 | 35*30 | 1870 | 35*35 | 1500 |       |      |
| 470      | 22*35 | 1750 | 22*40 | 1800 | 22*50 | 1900 | 30*50 | 2400 | 35*45 | 2000 |       |      |
|          | 25*30 | 1750 | 25*35 | 1800 | 25*40 | 1900 | 35*35 | 2330 |       |      |       |      |
| 680      | 22*40 | 2150 | 25*40 | 2250 | 30*40 | 2400 | 30*45 | 2960 |       |      |       |      |
|          | 25*35 | 2200 | 30*35 | 2250 | 35*30 | 2350 |       |      |       |      |       |      |
| 1000     | 25*45 | 2800 | 30*45 | 2950 |       |      |       |      |       |      |       |      |
|          | 30*35 | 2800 | 35*35 | 2900 |       |      |       |      |       |      |       |      |

**Note: Other Values are available on request. WEET is capable of doing custom service for you**

## PN Structure

| <b>WEF</b> | <b>1E</b>     | <b>223</b>  | <b>M</b>              | <b>03600830</b> | <b>100</b> | <b>B</b> | <b>R</b> |
|------------|---------------|-------------|-----------------------|-----------------|------------|----------|----------|
| Series     | Rated Voltage | Capacitance | Capacitance Tolerance | Dimension       | Pitch/Pins | Packing  | Pb       |
|            | 1.            | 2.          | 3.                    | 4.              | 5.         | 6.       | 7.       |

### 1. Rated Voltage

| Code    | 0J   | 1A   | 1C   | 1D   | 1E   | 1V   | 1G   | 1H   | 1J   | 1K   | 2A   | 2B   |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| Voltage | 6.3V | 10V  | 16V  | 20V  | 25V  | 35V  | 40V  | 50V  | 63V  | 80V  | 100V | 120V |
| Code    | 2C   | 2K   | 2D   | 2E   | 2F   | 2U   | 2N   | 2G   | 2X   | 2W   | 2H   | 2Y   |
| Voltage | 160V | 180V | 200V | 250V | 315V | 330V | 360V | 400V | 420V | 450V | 500V | 550V |

### 2. Capacitance

| Code             | 0R1 | R22  | R33  | R47  | 010 | 2R2 | 3R3 | 4R7 | 100 | 470 | 101 | 562  | 223   | 334    |
|------------------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|-------|--------|
| Capacitance (μF) | 0.1 | 0.22 | 0.33 | 0.47 | 1   | 2.2 | 3.3 | 4.7 | 10  | 47  | 100 | 5600 | 22000 | 330000 |

### 3. Capacitance Tolerance

| Code      | K    | L    | M    |
|-----------|------|------|------|
| Tolerance | ±10% | ±15% | ±20% |

### 4. Dimension

| Code           | 00500095 | 00630085 | 03600530 | 07701550 |
|----------------|----------|----------|----------|----------|
| Dimension (mm) | 5x9.5    | 6.3x8.5  | 36x53    | 77x155   |

### 5. Pitch

| Code       | 020 | 025 | 075 | 100  | 220 | 320 |
|------------|-----|-----|-----|------|-----|-----|
| Pitch (mm) | 2.0 | 2.5 | 7.5 | 10.0 | 22  | 32  |

### 6. Packing

| Code    | A    | B    |
|---------|------|------|
| Packing | Ammo | Bulk |

### 7. Pb

| Code | L      | R    |
|------|--------|------|
| Pb   | Leaded | RoHS |

