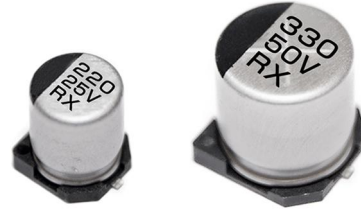


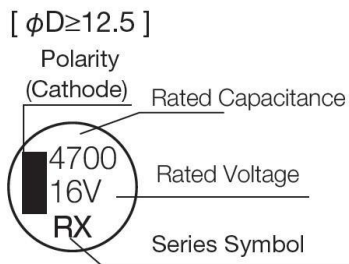
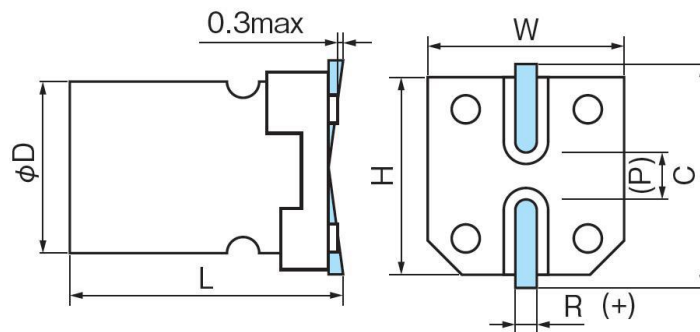
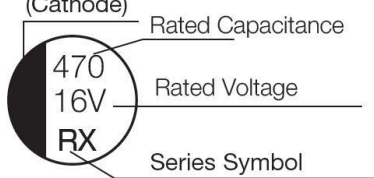
**FEATURES**

- 105°C 2,000-5,000Hours
- Super Low ESR
- Small, High Capacitance
- Solvent proof (within 2 minutes)



**DIMENSIONS (mm)**

[  $\phi D \leq 10$  ]  
Polarity (Cathode) Black print on the case top



A pressure relief vent is provided for  $\phi D=8$  or bigger

| $\phi D^{\pm 0.5}$ | L                | $W^{\pm 0.2}$ | $H^{\pm 0.2}$ | $C^{\pm 0.2}$ | R       | $p^{\pm 0.2}$ |
|--------------------|------------------|---------------|---------------|---------------|---------|---------------|
| 4                  | $5.4^{\pm 0.4}$  | 4.3           | 4.3           | 5.1           | 0.5~0.8 | 1             |
| 5                  | $5.4^{\pm 0.4}$  | 5.3           | 5.3           | 6.1           | 0.5~0.8 | 1.3           |
| 6.3                | $5.4^{\pm 0.4}$  | 6.6           | 6.6           | 7.3           | 0.5~0.8 | 2.2           |
| 6.3                | $7.7^{\pm 0.4}$  | 6.6           | 6.6           | 7.3           | 0.5~0.8 | 2.2           |
| 8                  | $6.5^{\pm 0.5}$  | 8.3           | 8.3           | 9.2           | 0.7~1.0 | 3.1           |
| 8                  | $10.5^{\pm 0.5}$ | 8.3           | 8.3           | 9.2           | 0.7~1.0 | 3.1           |



**SPECIFICATIONS**

| Items                              | Condition   |            | Specifications  |      |      |      |      |      |
|------------------------------------|---|------------|---|------|------|------|------|------|
| Rated voltage (V)                  | —   |            | 6.3   | 10   | 16   | 25   | 35   | 50   |
| Surge voltage (V)                  | Room temperature  |            | 8.0   | 13   | 20   | 32   | 44   | 63   |
| Category temperature range (°C)    | —   |            | -55 to +105   |      |      |      |      |      |
| Capacitance tolerance (%)          | 120Hz/20°C  |            | M : ±20   |      |      |      |      |      |
| Dissipation Factor (tan δ)         | tanδ (max)<br>120Hz/20°C  | φ4 to φ6.3 | 0.24  | 0.2  | 0.18 | 0.16 | 0.14 | 0.12 |
|                                    |   | Φ8 to φ10  | 0.26  | 0.24 | 0.2  | 0.18 | 0.16 | 0.14 |
|                                    |   |            | Exceeding 1,000μF, +0.02 every 1,000μF                  |      |      |      |      |      |
| Leakage current (LC)               | μA/after 2 minutes (max)  |            | The greater value of either 0.01CV or 3μA               |      |      |      |      |      |
| Impedance ratio at low temperature | Based on the value at 120Hz, +20°C  | -25°C      | Z/Z <sub>20°C</sub>                                     | 3    | 2    | 2    | 2    | 2    |
|                                    |   | -55°C      | Z/Z <sub>20°C</sub>                                     | 5    | 4    | 4    | 3    | 3    |
| Endurance                          | 105°C<br>2,000hours<br>rated voltage<br>applied (With<br>the rated<br>ripple current) | Test       | 6.3V.DC : 3,000hours, φ8×10.5 and φ10×10.5 : 5,000hours |      |      |      |      |      |
|                                    |   | ΔC/C       | Within ±30% of the initial value                        |      |      |      |      |      |
|                                    |   | tanδ       | Less than 300% of the specified value                   |      |      |      |      |      |
|                                    |   | LC         | Less than the specified value                           |      |      |      |      |      |

**RATED RIPPLE CURRENT FREQUENCY COEFFICIENT**

| Frequency:F(Hz)   |          | 100≤F<1k | 1k≤F<10k | 10k≤F<100k | 100k≤F |
|-------------------|----------|----------|----------|------------|--------|
| Capacitance:C(μF) | C≤33     | 0.35     | 0.70     | 0.90       | 1.00   |
|                   | 33<C≤150 | 0.40     | 0.85     | 0.92       | 1.00   |
|                   | 150<C    | 0.60     | 0.85     | 0.95       | 1.00   |



**STANDARD RATINGS**

| μF V | 6.3     |      |      | 10      |      |      | 16      |      |      | 25      |      |      | 35      |      |      | 50      |      |     |
|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|-----|
|      | Size    | ESR  | RC   | Size    | ESR  | RC   | Size    | ESR  | RC   | Size    | ESR  | RC   | Size    | ESR  | RC   | Size    | ESR  | RC  |
| 10   |         |      |      |         |      |      |         |      |      |         |      |      |         |      |      | 4×5.8   | 2.3  | 85  |
| 22   |         |      |      |         |      |      |         |      |      |         |      |      | 4×5.8   | 0.85 | 160  | 5×5.8   | 0.88 | 165 |
| 33   |         |      |      |         |      |      |         |      |      | 4×5.8   | 0.85 | 160  | 5×5.8   | 0.36 | 240  | 5×5.8   | 0.88 | 165 |
| 47   |         |      |      |         |      |      | 4×5.8   | 0.85 | 160  | 5×5.8   | 0.36 | 240  | 5×5.8   | 0.36 | 240  |         |      |     |
| 68   |         |      |      | 4×5.8   | 0.85 | 160  | 5×5.8   | 0.36 | 240  | 5×5.8   | 0.36 | 240  | 6.3×5.8 | 0.26 | 300  | 6.3×5.8 | 0.68 | 195 |
| 100  | 4×5.8   | 0.85 | 160  |         |      |      | 5×5.8   | 0.36 | 240  | 6.3×5.8 | 0.26 | 300  | 6.3×5.8 | 0.26 | 300  |         |      |     |
| 150  |         |      |      | 5×5.8   | 0.36 | 240  | 6.3×5.8 | 0.26 | 300  | 6.3×7.7 | 0.16 | 600  | 6.3×7.7 | 0.16 | 600  | 6.3×7.7 | 0.34 | 350 |
| 220  | 5×5.8   | 0.36 | 240  | 6.3×5.8 | 0.26 | 300  | 6.3×5.8 | 0.26 | 300  | 6.3×7.7 | 0.16 | 600  |         |      |      |         |      |     |
| 330  | 6.3×5.8 | 0.26 | 300  | 6.3×7.7 | 0.16 | 600  | 6.3×7.7 | 0.16 | 600  |         |      |      | 8×10.5  | 0.08 | 850  | 8×10.5  | 0.18 | 670 |
| 390  |         |      |      |         |      |      |         |      |      | 8×10.5  | 0.08 | 850  | 8×10.5  | 0.08 | 850  | 10×10.5 | 0.12 | 450 |
| 470  | 6.3×7.7 | 0.16 | 600  | 6.3×7.7 | 0.16 | 600  | 8×6.5   | 0.16 | 600  | 8×10.5  | 0.08 | 850  |         |      |      |         |      |     |
| 560  |         |      |      |         |      |      |         |      |      | 8×10.5  | 0.08 | 850  | 10×10.5 | 0.06 | 1100 |         |      |     |
| 680  | 6.3×7.7 | 0.16 | 600  |         |      |      | 8×10.5  | 0.08 | 850  |         |      |      | 10×10.5 | 0.06 | 1190 |         |      |     |
| 820  |         |      |      |         |      |      | 8×10.5  | 0.08 | 850  | 10×10.5 | 0.06 | 1190 |         |      |      |         |      |     |
| 1000 |         |      |      | 8×10.5  | 0.08 | 850  | 10×10.5 | 0.06 | 1190 | 10×10.5 | 0.06 | 1190 |         |      |      |         |      |     |
| 1200 |         |      |      |         |      |      | 10×10.5 | 0.06 | 1190 |         |      |      |         |      |      |         |      |     |
| 1500 | 8×10.5  | 0.08 | 850  | 10×10.5 | 0.06 | 1190 |         |      |      |         |      |      |         |      |      |         |      |     |
| 2200 | 10×10.5 | 0.06 | 1190 |         |      |      |         |      |      |         |      |      |         |      |      |         |      |     |

↑ Case      ↑      ↑ Rated ripple  
 size:φDxL(mm)    Impedance    current  
                           (Ω) max at    mArms(100kHz,  
                           100kHz,        105°C)  
                           20°C

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



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## PN Structure

| WRX    | 0J            | 0R1         | M                     | 040054    | T       | R  |
|--------|---------------|-------------|-----------------------|-----------|---------|----|
| Series | Rated Voltage | Capacitance | Capacitance Tolerance | Dimension | Packing | Pb |
|        | 1.            | 2.          | 3.                    | 4.        | 5.      | 6. |

### 1. Rated Voltage

| Code    | 0J   | 1A  | 1C  | 1D  | 1E  | 1V  | 1G  | 1H  | 1J  | 1K  | 2A   |
|---------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Voltage | 6.3V | 10V | 16V | 20V | 25V | 35V | 40V | 50V | 63V | 80V | 100V |

### 2. Capacitance

| Code             | 0R1 | R22  | R33  | R47  | 010 | 2R2 | 3R3 | 4R7 | 100 | 220 | 330 | 470 | 101 |
|------------------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Capacitance (μF) | 0.1 | 0.22 | 0.33 | 0.47 | 1   | 2.2 | 3.3 | 4.7 | 10  | 22  | 33  | 47  | 100 |

### 3. Capacitance Tolerance

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

### 4. Dimension

| Code           | 040054 | 050054 | 063054  | 080105 | 100105  |
|----------------|--------|--------|---------|--------|---------|
| Dimension (mm) | 4x5.4  | 5x5.4  | 6.3x5.4 | 8x10.5 | 10x10.5 |

### 5. Packing

| Code    | T           |
|---------|-------------|
| Packing | Tape & Reel |

### 6. Pb

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

