

### Features

- Load Life : 105°C, 3000hours.
- For high density mounting.
- Low impedance at 100kHz
- Corresponding product to RoHS

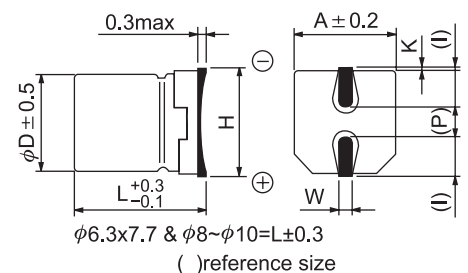


### SPECIFICATION

| Item                                       | Characteristic  |                                   |      |      |                            |      |      |  |
|--|---|-----------------------------------|------|------|----------------------------|------|------|--|
| Operation Temperature Range                | -40 ~ +105°C  |                                   |      |      |                            |      |      |  |
| Rated Working Voltage                      | 6.3 ~ 50VDC   |                                   |      |      |                            |      |      |  |
| Capacitance Tolerance (120Hz 20°C)         | ±20%(M)   |                                   |      |      |                            |      |      |  |
| Leakage Current<br>(20°C)                  | I ≤ 0.01CV or 3 (μA)  |                                   |      |      | I : Leakage Current (μA)   |      |      |  |
|  | *Whichever is greater after 2 minutes   |                                   |      |      | C : Rated Capacitance (μF) |      |      |  |
|  |   |                                   |      |      | V : Working Voltage (V)    |      |      |  |
| Surge Voltage<br>(20°C)                    | W.V.  | 6.3                               | 10   | 16   | 25                         | 35   | 50   |  |
|  | S.V.  | 8                                 | 13   | 20   | 32                         | 44   | 63   |  |
| Dissipation Factor (tan δ)<br>(120Hz 20°C) | W.V.  | 6.3                               | 10   | 16   | 25                         | 35   | 50   |  |
|  | tan δ   | 0.28                              | 0.24 | 0.22 | 0.16                       | 0.13 | 0.12 |  |
| Low Temperature Stability                  | Impedance ratio at 120Hz  |                                   |      |      |                            |      |      |  |
|  | Rated Voltage (V)   | 6.3                               | 10   | 16   | 25                         | 35   | 50   |  |
|  | -25°C / +20°C   | 4                                 | 3    | 2    | 2                          | 2    | 2    |  |
|  | -40°C / +20°C   | 10                                | 7    | 5    | 3                          | 3    | 3    |  |
| Load Life                                  | After 3000 hours application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)            |                                   |      |      |                            |      |      |  |
|  | Capacitance Change  | ≤ ±30% of initial value           |      |      |                            |      |      |  |
|  | Dissipation Factor  | ≤ 300% of initial specified value |      |      |                            |      |      |  |
|  | Leakage current   | ≤ initial specified value         |      |      |                            |      |      |  |
| Shelf Life                                 | At +105°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)                                   |                                   |      |      |                            |      |      |  |
| Resistance to Soldering Heat               | Capacitor placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature. |                                   |      |      |                            |      |      |  |
|  | Capacitance Change  | ≤ ±10% of initial value           |      |      |                            |      |      |  |
|  | Dissipation Factor  | ≤ initial specified value         |      |      |                            |      |      |  |
|  | Leakage current   | ≤ initial specified value         |      |      |                            |      |      |  |

### DIMENSIONS (mm)

| D    | L    | A    | H       | I   | W        | P   | K                                      |
|------|------|------|---------|-----|----------|-----|--|
| 4.0  | 5.4  | 4.3  | 5.5MAX  | 1.8 | 0.65±0.1 | 1.0 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| 5.0  | 5.4  | 5.3  | 6.5MAX  | 2.2 | 0.65±0.1 | 1.5 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| 6.3  | 5.4  | 6.6  | 7.8MAX  | 2.6 | 0.65±0.1 | 2.1 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| 6.3  | 7.7  | 6.6  | 7.8MAX  | 2.6 | 0.65±0.1 | 2.1 | 0.35 <sup>+0.15</sup> <sub>-0.20</sub> |
| 8.0  | 10.2 | 8.3  | 10.0MAX | 3.4 | 0.90±0.2 | 3.1 | 0.70±0.2                               |
| 10.0 | 10.2 | 10.3 | 12.0MAX | 3.5 | 0.90±0.2 | 4.6 | 0.70±0.2                               |



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)  
 Max impedance : Ω 20°C 100kHz  
 Max ripple current : mA(rms) 105°C 100kHz

| μF   | V(DC)<br>Item | 6.3     |      |       | 10      |      |         | 16      |      |         | 25      |      |         | 35      |      |         | 50      |      |      |
|------|---------------|---------|------|-------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---------|------|------|
|      |               | DxL     | IMP. | R.C.  | DxL     | IMP. | R.C.    | DxL     | IMP. | R.C.    | DxL     | IMP. | R.C.    | DxL     | IMP. | R.C.    | DxL     | IMP. | R.C. |
| 10   |               |         |      |       |         |      |         |         |      |         |         |      | 5x5.4   | 1.30    | 95   | 6.3x5.4 | 2.00    | 70   |      |
| 22   |               |         |      |       |         |      | 5x5.4   | 1.30    | 95   |         |         |      | 5x5.4   | 0.70    | 140  | 6.3x5.4 | 2.00    | 70   |      |
| 33   |               |         |      | 5x5.4 | 1.30    | 95   | 6.3x5.4 | 0.70    | 140  | 6.3x5.4 | 0.70    | 140  | 6.3x7.7 | 0.70    | 140  | 6.3x7.7 | 1.60    | 100  |      |
| 47   |               | 5x5.4   | 1.30 | 95    | 6.3x5.4 | 0.70 | 140     | 6.3x5.4 | 0.70 | 140     | 6.3x5.4 | 0.70 | 230     | 6.3x7.7 | 0.70 | 230     | 6.3x7.7 | 1.60 | 100  |
|      |               |         |      |       |         |      |         |         |      |         | 6.3x7.7 | 0.70 | 230     |         |      |         |         |      |      |
| 100  |               | 6.3x5.4 | 0.70 | 140   | 6.3x5.4 | 0.70 | 140     | 6.3x5.4 | 0.70 | 140     | 6.3x7.7 | 0.70 | 230     | 6.3x7.7 | 0.70 | 230     | 8x10.2  | 0.34 | 350  |
|      |               |         |      |       |         |      |         | 6.3x7.7 | 0.70 | 230     | 8x10.2  | 0.16 | 600     |         |      |         |         |      |      |
| 150  |               | 6.3x5.4 | 0.70 | 140   | 6.3x5.4 | 0.70 | 140     | 6.3x7.7 | 0.70 | 230     | 8x10.2  | 0.16 | 600     | 8x10.2  | 0.16 | 600     | 10x10.2 | 0.18 | 670  |
| 220  |               | 6.3x5.4 | 0.70 | 230   | 6.3x7.7 | 0.70 | 230     | 6.3x7.7 | 0.70 | 230     | 8x10.2  | 0.16 | 600     | 8x10.2  | 0.16 | 600     | 10x10.2 | 0.18 | 670  |
|      |               |         |      |       | 8x10.2  | 0.70 | 600     | 8x10.2  | 0.16 | 600     |         |      |         | 10x10.2 | 0.08 | 850     |         |      |      |
| 330  |               | 6.3x7.7 | 0.70 | 230   | 8x10.2  | 0.16 | 600     | 8x10.2  | 0.16 | 600     | 8x10.2  | 0.15 | 600     | 10x10.2 | 0.08 | 850     |         |      |      |
|      |               | 8x10.2  | 0.16 | 600   |         |      |         |         |      |         | 10x10.2 | 0.08 | 850     |         |      |         |         |      |      |
| 470  |               | 8x10.2  | 0.16 | 600   | 8x10.2  | 0.16 | 600     | 8x10.2  | 0.16 | 600     |         |      |         |         |      |         |         |      |      |
|      |               |         |      |       |         |      |         | 10x10.2 | 0.08 | 850     |         |      |         |         |      |         |         |      |      |
| 1000 |               | 10x10.2 | 0.08 | 850   |         |      |         |         |      |         |         |      |         |         |      |         |         |      |      |

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