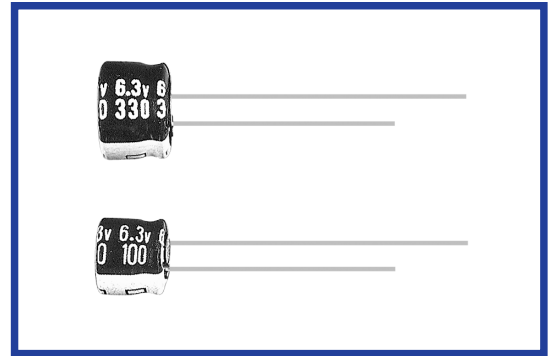


MS5 SERIES
85°C 5mm Height

•8Load Life : 85°C 1000 hours.

 RoHS
compliance

◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|----|----|------------------|------|------|------|------|------|------|------|------------------|----|----|----|---|---|---|---|
| Category Temperature Range | -40~+85°C | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 4~50Vdc | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc) | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.35</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </tbody> </table> (20°C, 120Hz) | Rated Voltage (Vdc) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | tanδ | 0.35 | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | | | | | | | | |
| Rated Voltage (Vdc) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | |
| tanδ | 0.35 | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | | | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 1000 hrs at 85°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table> | Capacitance Change | Within ±25% of the initial value. | Dissipation Factor | Not more than 200% of the specified value. | Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±25% of the initial value. | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 200% of the specified value. | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>7</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>15</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> </tr> </tbody> </table> (120Hz) | Rated Voltage (Vdc) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | Z(-25°C)/Z(20°C) | 7 | 6 | 4 | 4 | 3 | 2 | 2 | Z(-40°C)/Z(20°C) | 15 | 12 | 10 | 8 | 6 | 4 | 4 |
| Rated Voltage (Vdc) | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 7 | 6 | 4 | 4 | 3 | 2 | 2 | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 15 | 12 | 10 | 8 | 6 | 4 | 4 | | | | | | | | | | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| Frequency (Hz) | 60(50) | 120 | 500 | 1k | 10k≤ | |
|----------------|-----------|------|------|------|------|------|
| Coefficient | 0.47~1μF | 0.50 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 1.5~6.8μF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 10~68μF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 100~470μF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |

◆OPTION

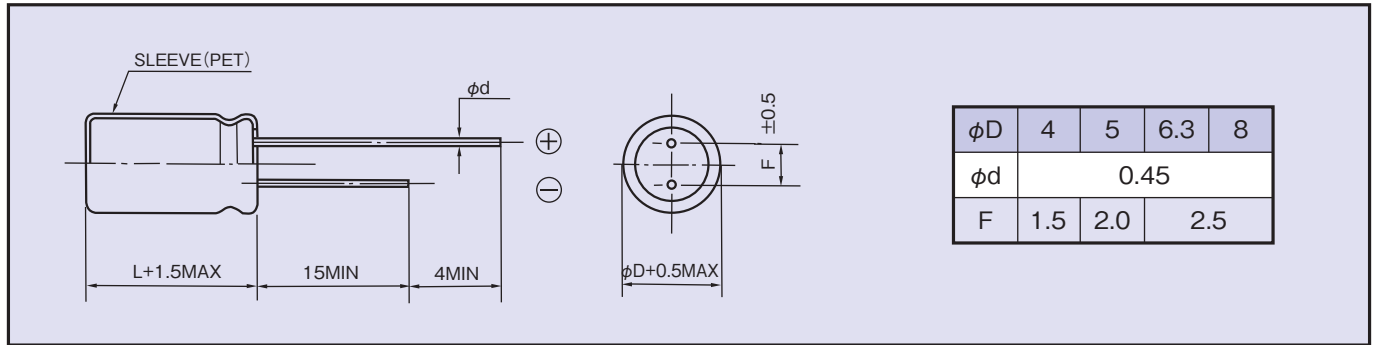
| | Code |
|------------|------|
| PET Sleeve | EFC |

◆PART NUMBER

| | | | | | | |
|---------------|--------|-------------|-----------------------|--------|--------------|-----------|
| □□□ | MS5 | □□□□□ | M | □□□ | □□ | D×L |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

◆ **DIMENSIONS**

(mm)



◆ **STANDARD SIZE**

Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./85°C, 120Hz)

| Vdc \ Cap(μF) | 4 | | 6.3 | | 10 | | 16 | |
|----------------------|-------|--------|-------|--------|-------|--------|-------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 4.7 | | | | | | | 4x5 | 11 |
| 6.8 | | | | | 4x5 | 10 | 4x5 | 13 |
| 10 | | | 4x5 | 14 | 4x5 | 16 | 4x5 | 18 |
| 15 | | | 4x5 | 18 | 4x5 | 22 | 5x5 | 26 |
| 22 | 4x5 | 20 | 4x5 | 22 | 5x5 | 30 | 5x5 | 35 |
| 33 | 4x5 | 27 | 5x5 | 34 | 5x5 | 45 | 6.3x5 | 51 |
| 47 | 4x5 | 37 | 5x5 | 37 | 6.3x5 | 50 | 6.3x5 | 65 |
| 68 | 5x5 | 45 | 6.3x5 | 55 | 6.3x5 | 59 | 6.3x5 | 70 |
| 100 | 5x5 | 62 | 6.3x5 | 62 | 6.3x5 | 80 | 8x5 | 92 |
| 220 | 6.3x5 | 74 | 8x5 | 120 | 8x5 | 145 | | |
| 330 | 8x5 | 145 | 8x5 | 145 | | | | |
| 470 | 8x5 | 181 | | | | | | |

| Vdc \ Cap(μF) | 25 | | 35 | | 50 | |
|----------------------|-------|--------|-------|--------|-------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.47 | | | | | 4x5 | 6 |
| 0.68 | | | | | 4x5 | 7 |
| 1 | | | | | 4x5 | 8.6 |
| 1.5 | | | | | 4x5 | 8.7 |
| 2.2 | | | 4x5 | 9 | 4x5 | 9.1 |
| 3.3 | 4x5 | 11 | 4x5 | 12 | 4x5 | 13 |
| 4.7 | 4x5 | 13 | 4x5 | 14 | 5x5 | 20 |
| 6.8 | 4x5 | 19 | 5x5 | 20 | 6.3x5 | 26 |
| 10 | 5x5 | 27 | 5x5 | 27 | 6.3x5 | 31 |
| 15 | 5x5 | 33 | 6.3x5 | 35 | 6.3x5 | 39 |
| 22 | 6.3x5 | 46 | 6.3x5 | 46 | 8x5 | 60 |
| 33 | 6.3x5 | 54 | 8x5 | 65 | 8x5 | 80 |
| 47 | 6.3x5 | 65 | 8x5 | 85 | | |
| 68 | 8x5 | 90 | | | | |
| 100 | 8x5 | 120 | | | | |

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