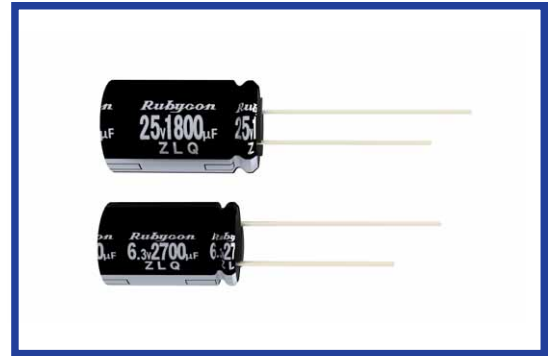


ZLQ SERIES
105°C Ultra Miniaturized, Low Impedance

*Load Life : 105°C 3000~6000 hours.

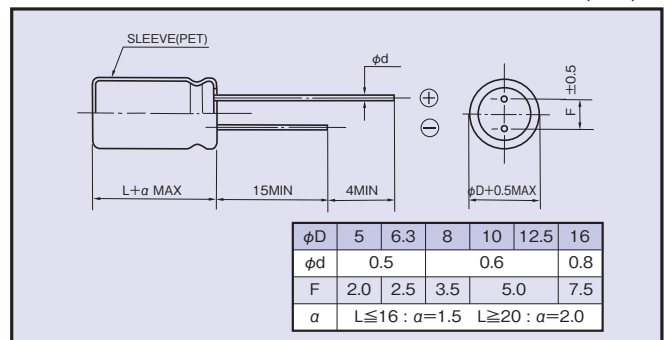
RoHS compliance


◆ SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------|---|-----------|-----------------|--------------------|--|------------------|------|-----------------|------------------------------------|--------|------|------------------|---|---------|------|---|---|-----------|------|
| Category Temperature Range | -40~+105°C | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~35Vdc | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.03CV or 3µA whichever is greater.(After 2 minutes) I=Leakage Current(µA) C=Capacitance(µF) V=Rated Voltage(Vdc) | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>tanδ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table> (20°C, 120Hz) When capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF. | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | tanδ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | | | | | | | | |
| Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | | | | | | | | | | | | | | | | |
| tanδ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.(6.3Vdc, 10Vdc:±30%)</td> <td>Case Size</td> <td>Life Time (hrs)</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> <td>φD ≤ 6.3</td> <td>3000</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> <td>φD = 8</td> <td>4000</td> </tr> <tr> <td></td> <td></td> <td>φD = 10</td> <td>5000</td> </tr> <tr> <td></td> <td></td> <td>φD ≥ 12.5</td> <td>6000</td> </tr> </table> | Capacitance Change | Within ±25% of the initial value.(6.3Vdc, 10Vdc:±30%) | Case Size | Life Time (hrs) | Dissipation Factor | Not more than 200% of the specified value. | φD ≤ 6.3 | 3000 | Leakage Current | Not more than the specified value. | φD = 8 | 4000 | | | φD = 10 | 5000 | | | φD ≥ 12.5 | 6000 |
| Capacitance Change | Within ±25% of the initial value.(6.3Vdc, 10Vdc:±30%) | Case Size | Life Time (hrs) | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 200% of the specified value. | φD ≤ 6.3 | 3000 | | | | | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | φD = 8 | 4000 | | | | | | | | | | | | | | | | | | |
| | | φD = 10 | 5000 | | | | | | | | | | | | | | | | | | |
| | | φD ≥ 12.5 | 6000 | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <tr> <td>Rated Voltage (Vdc)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> (120Hz) | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | Z(-25°C)/Z(20°C) | 3 | 2 | 2 | 2 | 2 | Z(-40°C)/Z(20°C) | 6 | 4 | 3 | 3 | 3 | | |
| Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 6 | 4 | 3 | 3 | 3 | | | | | | | | | | | | | | | | |

◆ MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | | 120 | 1k | 10k | 100k ≤ |
|----------------|--------------|------|------|------|--------|
| Coefficient | 56~270µF | 0.50 | 0.73 | 0.92 | 1.00 |
| | 330~680µF | 0.55 | 0.77 | 0.94 | 1.00 |
| | 820~1800µF | 0.60 | 0.80 | 0.96 | 1.00 |
| | 2200~12000µF | 0.70 | 0.85 | 0.98 | 1.00 |

◆ DIMENSIONS

◆ PART NUMBER

| | | | | | | |
|---------------|--------|-------------|-----------------------|--------|--------------|-----------|
| □□□ | ZLQ | □□□□□ | M | □□□ | □□ | DXL |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

◆ OPTION

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

◆STANDARD SIZE

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) | Impedance (Ω MAX) | |
|---------------------|------------------|---------------|--|-------------------|---------------|
| | | | | 20°C, 100kHz | -10°C, 100kHz |
| 6.3 | 270 | 5×11 | 400 | 0.21 | 0.77 |
| | 680 | 6.3×11 | 620 | 0.092 | 0.34 |
| | 1200 | 8×11.5 | 1060 | 0.049 | 0.15 |
| | 1500 | 8×16 | 1390 | 0.038 | 0.12 |
| | 1800 | 10×12.5 | 1470 | 0.035 | 0.11 |
| | 2200 | 8×20 | 1660 | 0.027 | 0.081 |
| | 2700 | 10×16 | 1930 | 0.025 | 0.075 |
| | 3900 | 10×20 | 2130 | 0.018 | 0.054 |
| | 4700 | 10×25 | 2500 | 0.015 | 0.045 |
| | 5600 | 12.5×20 | 2690 | 0.016 | 0.041 |
| | 8200 | 12.5×25 | 3140 | 0.013 | 0.033 |
| | 8200 | 12.5×30 | 3680 | 0.012 | 0.030 |
| | 10000 | 16×20 | 3500 | 0.014 | 0.035 |
| | 10000 | 12.5×35 | 3800 | 0.010 | 0.025 |
| 12000 | 16×25 | 3880 | 0.011 | 0.028 | |
| 10 | 220 | 5×11 | 400 | 0.21 | 0.77 |
| | 470 | 6.3×11 | 620 | 0.092 | 0.34 |
| | 820 | 8×11.5 | 1060 | 0.049 | 0.15 |
| | 1200 | 8×16 | 1390 | 0.038 | 0.12 |
| | 1200 | 10×12.5 | 1470 | 0.035 | 0.11 |
| | 1800 | 8×20 | 1660 | 0.027 | 0.081 |
| | 1800 | 10×16 | 1930 | 0.025 | 0.075 |
| | 2700 | 10×20 | 2130 | 0.018 | 0.054 |
| | 3300 | 10×25 | 2500 | 0.015 | 0.045 |
| | 3900 | 12.5×20 | 2690 | 0.016 | 0.041 |
| | 5600 | 12.5×25 | 3140 | 0.013 | 0.033 |
| | 6800 | 12.5×30 | 3680 | 0.012 | 0.030 |
| | 6800 | 16×20 | 3500 | 0.014 | 0.035 |
| | 8200 | 12.5×35 | 3800 | 0.010 | 0.025 |
| 8200 | 16×25 | 3880 | 0.011 | 0.028 | |
| 16 | 150 | 5×11 | 400 | 0.21 | 0.77 |
| | 330 | 6.3×11 | 620 | 0.092 | 0.34 |
| | 560 | 8×11.5 | 1060 | 0.049 | 0.15 |
| | 820 | 8×16 | 1390 | 0.038 | 0.12 |
| | 820 | 10×12.5 | 1470 | 0.035 | 0.11 |
| | 1200 | 8×20 | 1660 | 0.027 | 0.081 |
| | 1200 | 10×16 | 1930 | 0.025 | 0.075 |
| | 1800 | 10×20 | 2130 | 0.018 | 0.054 |
| | 2200 | 10×25 | 2500 | 0.015 | 0.045 |
| | 2700 | 12.5×20 | 2690 | 0.016 | 0.041 |
| | 3900 | 12.5×25 | 3140 | 0.013 | 0.033 |
| | 3900 | 12.5×30 | 3680 | 0.012 | 0.030 |
| | 4700 | 16×20 | 3500 | 0.014 | 0.035 |
| | 5600 | 12.5×35 | 3800 | 0.010 | 0.025 |
| 5600 | 16×25 | 3880 | 0.011 | 0.028 | |

| Rated Voltage (Vdc) | Capacitance (μF) | Size φD×L(mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) | Impedance (Ω MAX) | |
|---------------------|------------------|---------------|--|-------------------|---------------|
| | | | | 20°C, 100kHz | -10°C, 100kHz |
| 25 | 82 | 5×11 | 400 | 0.21 | 0.77 |
| | 180 | 6.3×11 | 620 | 0.092 | 0.34 |
| | 330 | 8×11.5 | 1060 | 0.049 | 0.15 |
| | 470 | 8×16 | 1390 | 0.038 | 0.12 |
| | 560 | 10×12.5 | 1470 | 0.035 | 0.11 |
| | 680 | 8×20 | 1660 | 0.027 | 0.081 |
| | 820 | 10×16 | 1930 | 0.025 | 0.075 |
| | 1200 | 10×20 | 2130 | 0.018 | 0.054 |
| | 1500 | 10×25 | 2500 | 0.015 | 0.045 |
| | 1800 | 12.5×20 | 2690 | 0.016 | 0.041 |
| | 2200 | 12.5×25 | 3140 | 0.013 | 0.033 |
| | 2700 | 12.5×30 | 3680 | 0.012 | 0.030 |
| | 2700 | 16×20 | 3500 | 0.014 | 0.035 |
| | 3300 | 12.5×35 | 3800 | 0.010 | 0.025 |
| 3900 | 16×25 | 3880 | 0.011 | 0.028 | |
| 35 | 56 | 5×11 | 400 | 0.21 | 0.77 |
| | 120 | 6.3×11 | 620 | 0.092 | 0.34 |
| | 220 | 8×11.5 | 1060 | 0.049 | 0.15 |
| | 270 | 8×16 | 1390 | 0.038 | 0.12 |
| | 330 | 10×12.5 | 1470 | 0.035 | 0.11 |
| | 390 | 8×20 | 1660 | 0.027 | 0.081 |
| | 470 | 10×16 | 1930 | 0.025 | 0.075 |
| | 680 | 10×20 | 2130 | 0.018 | 0.054 |
| | 820 | 10×25 | 2500 | 0.015 | 0.045 |
| | 1000 | 12.5×20 | 2690 | 0.016 | 0.041 |
| | 1500 | 12.5×25 | 3140 | 0.013 | 0.033 |
| | 1500 | 12.5×30 | 3680 | 0.012 | 0.030 |
| | 1800 | 16×20 | 3500 | 0.014 | 0.035 |
| | 2200 | 12.5×35 | 3800 | 0.010 | 0.025 |
| 2200 | 16×25 | 3880 | 0.011 | 0.028 | |

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