# ZLK SERIES

## 105℃ Ultra High Ripple Current, Low Impedance

•Load Life: 105℃ 4000～5000 hours.

RoHS compliance

## ◆SPECIFICATIONS

| Items | Characteristics |
|---|---|
| Category Temperature Range | −40～+105℃ |
| Rated Voltage Range | 10～35Vdc |
| Capacitance Tolerance | ±20%(20℃,120Hz) |
| Leakage Current(MAX) | I=0.01CV (After 2 minutes)<br>I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc) |
| Dissipation Factor(MAX) (tanδ) | (20℃,120Hz) |
| Endurance | After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements. |
| Low Temperature Stability Impedance Ratio(MAX) | (120Hz) |

Dissipation Factor(MAX) (tanδ):

| Rated Voltage (Vdc) | 10 | 16 | 25 | 35 |
|---|---|---|---|---|
| tanδ | 0.19 | 0.16 | 0.14 | 0.12 |

Endurance:

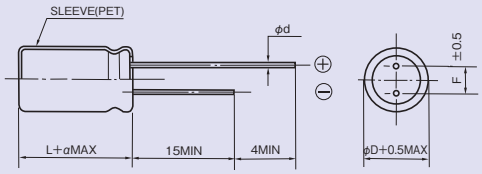
| | |
|---|---|
| Capacitance Change | Within ±25% of the initial value. |
| Dissipation Factor | Not more than 200% of the specified value. |
| Leakage Current | Not more than the specified value. |

| Case Size | Life Time (hrs) |
|---|---|
| 8×16, 8×20 10×12.5 | 4000 |
| 10×16,10×20 10×25 | 5000 |

Low Temperature Stability Impedance Ratio(MAX):

| Rated Voltage (Vdc) | 10 | 16 | 25 | 35 |
|---|---|---|---|---|
| Z(−25℃)/Z(20℃) | 2 | 2 | 2 | 2 |
| Z(−40℃)/Z(20℃) | 3 | 3 | 3 | 3 |

## ◆DIMENSIONS (mm)




| φD | 8 | 10 |
|---|---|---|
| φd | 0.6 | |
| F | 3.5 | 5.0 |
| α | L≦16:α=1.5 | L≧20:α=2.0 |

## ◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | 120 | 1k | 10k | 100k≦ |
|---|---|---|---|---|
| Coefficient | 0.30 | 0.70 | 0.90 | 1.00 |

## ◆STANDARD SIZE

Size φDXL(mm), Rated Ripple Current(mA r.m.s./105℃,100kHz),Impedance(Ω Max/100kHz)

| Vdc | Cap (μF) | Size (φDxL) | Ripple | Impedance 20℃ | Impedance -10℃ |
|---|---|---|---|---|---|
| 10 | 680 | 8×16 | 2050 | 0.059 | 0.18 |
| | 680 | 10×12.5 | 2190 | 0.053 | 0.16 |
| | 1000 | 8×20 | 2380 | 0.041 | 0.13 |
| | 1000 | 10×16 | 2550 | 0.038 | 0.12 |
| | 1500 | 10×20 | 2880 | 0.028 | 0.084 |
| | 1800 | 10×25 | 3160 | 0.024 | 0.072 |

| Vdc | Cap (μF) | Size (φDxL) | Ripple | Impedance 20℃ | Impedance -10℃ |
|---|---|---|---|---|---|
| 16 | 470 | 8×16 | 2050 | 0.059 | 0.18 |
| | 560 | 10×12.5 | 2190 | 0.053 | 0.16 |
| | 680 | 8×20 | 2380 | 0.041 | 0.13 |
| | 820 | 10×16 | 2550 | 0.038 | 0.12 |
| | 1200 | 10×20 | 2880 | 0.028 | 0.084 |
| | 1500 | 10×25 | 3160 | 0.024 | 0.072 |

| Vdc | Cap (μF) | Size (φDxL) | Ripple | Impedance 20℃ | Impedance -10℃ |
|---|---|---|---|---|---|
| 25 | 330 | 8×16 | 2050 | 0.059 | 0.18 |
| | 390 | 10×12.5 | 2190 | 0.053 | 0.16 |
| | 470 | 8×20 | 2380 | 0.041 | 0.13 |
| | 560 | 10×16 | 2550 | 0.038 | 0.12 |
| | 820 | 10×20 | 2880 | 0.028 | 0.084 |
| | 1000 | 10×25 | 3160 | 0.024 | 0.072 |
| 35 | 220 | 8×16 | 2050 | 0.059 | 0.18 |
| | 220 | 10×12.5 | 2190 | 0.053 | 0.16 |
| | 270 | 8×20 | 2380 | 0.041 | 0.13 |
| | 330 | 10×16 | 2550 | 0.038 | 0.12 |
| | 470 | 10×20 | 2880 | 0.028 | 0.084 |
| | 560 | 10×25 | 3160 | 0.024 | 0.072 |

## ◆OPTION

| | Code |
|---|---|
| PET Sleeve | Blank |

## ◆PART NUMBER

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

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View 10ZLK1500M10X20 on WIN SOURCE
- Rubycon Information

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