

Aluminum Electrolytic Capacitor Series

KLS10 - CD11T (MT) Series

Long Life

Better stable and reliable performance, long life.
 $D \geq 8\text{mm}$ equipped with pressure release device.
 Be used in DC or pulse circuit of colour TV sets, telecommunications and computers.



| Item | Characteristics | | | | | | | | | | |
|----------------------------|--|---|------|------|------|----------------------------|------|------|------|------|------|
| Size and its tolerance | ØD | 5 | 6 | 8 | 10 | 12 | 13 | 16 | 18 | | |
| | F ± 0.5 | 2.0 | 2.5 | 3.5 | 5.0 | | | 7.5 | | | |
| | d ± 0.1 | 0.5 | | | 0.6 | | | 0.8 | | | |
| Operating Temp. Range | -40°C ~ +85°C (≤100VDC) | | | | | -25°C ~ +85°C (160-400VDC) | | | | | |
| Rated Working Voltage | 6.3 ~ 400VDC | | | | | | | | | | |
| Capacitance Range | 0.1 ~ 4700 µF (+20°C, 100 or 120Hz) | | | | | | | | | | |
| Capacitance Tol. | ±20%, +30%/-10% (+20°C, 100 or 120Hz) | | | | | | | | | | |
| Dissipation Factor tg δ | At +20°C, 100 or 120Hz, for CR > 1000 µF, tg δ add 0.02 per another 1000 µF. | | | | | | | | | | |
| | UR (V) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 250 | 400 |
| | tg δ | 0.22 | 0.20 | 0.15 | 0.12 | 0.10 | 0.10 | 0.10 | 0.16 | 0.18 | 0.20 |
| Leakage Current IL | ≤0.01·CR·UR or 3 µA (UR ≤ 100VDC) whichever is greater ≤0.03·CR·UR + 10 µA (UR ≥ 160VDC) At +20°C, measured after 2 minutes application of UR. | | | | | | | | | | |
| Load Life | At +85°C after UR | | | | | | | | | | |
| | ΔC | ±20% (+20%/-30% 6.3V) of initial measured value | | | | | | | | | |
| | DF(tg δ) | ≤200% of initial specified value | | | | | | | | | |
| | LC(IL) | ≤ initial specified value | | | | | | | | | |
| Shelf Life | At 85°C, after shelf for 1000 hours (without voltage applied), then restored for 16 hours at room temp. | | | | | | | | | | |
| | ΔC | ≤ ±20% of initial measured value | | | | | | | | | |
| | DF(tg δ) | ≤200% of initial specified value | | | | | | | | | |
| | LC(IL) | ≤200% of initial specified value | | | | | | | | | |

Case Size of Standard Products

| CR UR (V) (µF) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 250 | 400 | CR UR (V) (µF) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 250 | 400 | |
|----------------|------|------|------|------|------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|--|
| 0.1~0.68 | | | | | 5×11 | | 5×11 | | | | 100 | 6×11 | 6×12 | 6×12 | 8×12 | 10×13 | 10×15 | 12×22 | 16×27 | 16×35 | | |
| 1.0,1.5 | | | | | 5×11 | | 5×11 | 6×12 | 6×12 | 8×12 | 150 | 6×12 | 6×12 | 8×12 | 10×13 | 10×17 | 10×20 | 13×26 | 16×35 | | | |
| 2.2 | | | | | 5×11 | | 5×11 | 6×12 | 8×12 | 10×13 | 220 | 6×12 | 8×12 | 10×13 | 10×14 | 10×20 | 12×22 | 16×27 | 18×36 | | | |
| 3.3 | | | | | 5×11 | | 5×11 | 8×12 | 8×12 | 10×15 | 330 | 8×12 | 10×13 | 10×15 | 10×17 | 12×22 | 13×26 | 16×31 | | | | |
| 4.7 | | | 5×11 | | 5×11 | 5×11 | 6×11 | 8×12 | 10×13 | 10×17 | 470 | 10×13 | 10×15 | 10×17 | 12×22 | 13×26 | 16×27 | 18×36 | | | | |
| 6.8 | | | 5×11 | | 5×11 | 5×11 | 6×11 | 10×13 | 10×15 | 10×20 | 680 | 10×13 | 10×17 | 12×22 | 13×22 | 16×27 | 16×27 | | | | | |
| 10 | | 5×11 | 5×11 | 5×11 | 5×11 | 5×11 | 6×12 | 10×13 | 10×15 | 12×22 | 1000 | 10×17 | 12×22 | 13×22 | 13×26 | 16×31 | 16×35 | | | | | |
| 15 | | 5×11 | 5×11 | 5×11 | 6×11 | 6×11 | 8×12 | 10×15 | 10×20 | 13×26 | 1500 | 12×22 | 13×22 | 13×26 | 16×27 | 18×36 | | | | | | |
| 22 | 5×11 | 5×11 | 5×11 | 5×11 | 6×11 | 6×12 | 8×12 | 10×20 | 12×22 | 16×27 | 2200 | 13×22 | 13×26 | 16×27 | 16×35 | 18×41 | | | | | | |
| 33 | 5×11 | 5×11 | 5×11 | 6×11 | 6×12 | 8×12 | 10×13 | 12×22 | 13×26 | 16×31 | 3300 | 13×26 | 16×27 | 16×35 | | | | | | | | |
| 47 | 5×11 | 5×11 | 6×11 | 6×12 | 8×12 | 8×12 | 10×17 | 13×22 | 16×27 | 16×36 | 4700 | 16×27 | 16×31 | | | | | | | | | |
| 68 | 5×11 | 6×11 | 6×12 | 6×12 | 8×12 | 10×13 | 10×20 | 13×26 | 16×31 | 18×41 | 6800 | 16×35 | | | | | | | | | | |

Note: We can also provide the capacitors according to the customer's request.