

Excellent Integrated System Limited

Stocking Distributor

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Nichicon UML0G101MDD

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of Nichicon: Excellent Integrated System Limited

Datasheet of UML0G101MDD - CAP ALUM 100UF 20% 4V RADIAL

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

ALUMINUM **ELECTROLYTIC CAPACITORS**

nichicon

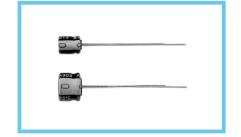




- Low leakage current series with 5mm height.
- Adapted to the RoHS directive (2002/95/EC).

Products which are scheduled to discontinue. Not recommended for new designs



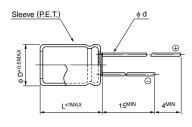




■Specifications

| Item | Performance Characteristics | | | | | | | | | | | | |
|------------------------------|--|--|-------|----|-----|-------|------|---|---------------------------------|----|----|------|--|
| Category Temperature Range | -40 to +85°C | | | | | | | | | | | | |
| Rated Voltage Range | 4 to 50V | to 50V | | | | | | | | | | | |
| Rated Capacitance Range | 0.1 to 100μF | 1 to 100μF | | | | | | | | | | | |
| Rated Capacitance Tolerance | ±20% at 120Hz, 2 | 20% at 120Hz, 20°C | | | | | | | | | | | |
| Leakage Current | After 2 minutes' ap | After 2 minutes' application of rated voltage, leakage current is not more than 0.002CV or 0.4 (µA), whichever is greater. | | | | | | | | | | | |
| | Measurement frequency: 120Hz, Temperature: 20°C | | | | | | | | | | | | |
| tan δ | Rated voltage (V) | 4 | 6.3 | | 10 | | 16 | 2 | 25 | 35 | | 50 | |
| | tan δ (MAX.) | 0.35 | 0.24 | | 0.2 | 0 | 0.16 | 0. | .14 | 0. | 12 | 0.10 | |
| | Measurement frequency: 120Hz | | | | | | | | | | | | |
| Ct-bility -t l T | Rated vo | Rated voltage (V) | | 4 | (| 5.3 | 10 | 16 | 2 | 25 | 35 | 50 | |
| Stability at Low Temperature | Impedance ratio | Z-25°C / Z+20°C | | 7 | | 4 | 3 | 2 | | 2 | 2 | 2 | |
| | ZT / Z20 (MAX.) | Z-40°C / Z+ | -20°C | 15 | | 10 | 8 | 6 | | 4 | 3 | 3 | |
| | After 1000 hours' application of rated voltage Capacitance change Within ±20% of initial value | | | | | | | | | | | | |
| Endurance | After 1000 hours' application of rated voltage | | | | | | | Within ±20% of initial value 200% or less of initial specified value | | | | | |
| Endurance | at 85°C, capacitors meet the characteristic | | | | | tan δ | | | Initial specified value or less | | | | |
| | requirements listed at right. Leakage current Initial specified value or less | | | | | | | | | | | | |
| Shelf Life | After storing the capacitors under no load at 85°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above. | | | | | | | | | | | | |
| Marking | Printed with white | Printed with white color letter on black sleeve. | | | | | | | | | | | |

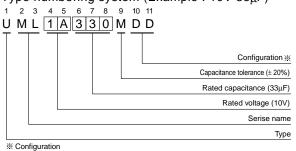
■Radial Lead Type





| | | | (mm) |
|----|------|------|------|
| φD | 4 | 5 | 6.3 |
| Р | 1.5 | 2.0 | 2.5 |
| φd | 0.45 | 0.45 | 0.45 |

Type numbering system (Example : 10V $33\mu F$)



| Configuration | | | | | | | |
|---------------|--|--|--|--|--|--|--|
| φD | Pb-free leadwire Pb-free PET sleeve | | | | | | |
| 4 to 6.3 | DD | | | | | | |

■Dimensions

| | V | 4 | | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | |
|----------|------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-----------|--------------|
| Cap.(μF) | Code | 0G | | 0J | | 1A | | 1C | | 1E | | 1V | | 1H | |
| 0.1 | 0R1 | | į | | | | | | | | 1 | | | 4×5 | 1.0 |
| 0.22 | R22 | | i | | i | | i | | i | | 1 | | 1 | 4×5 | 2.0 |
| 0.33 | R33 | | ! | | - | | | | - | | 1 | | 1 | 4×5 | 2.8 |
| 0.47 | R47 | | | | 1 | | i | | | | i | | 1 | 4×5 | 4.0 |
| 1 | 010 | | | | - | | | | | | - | | - | 4×5 | 8.4 |
| 2.2 | 2R2 | | i | | | | | | i | | | | | 4×5 | 13 |
| 3.3 | 3R3 | | İ | | | | | | | | | | | 5×5 | 17 |
| 4.7 | 4R7 | | | | | | | | | 4×5 | 16 | 4×5 | 18 | 5×5 | 20 |
| 10 | 100 | | i | | i | | i | 4×5 | 23 | 5×5 | 27 | 5×5 | 29 | 6.3×5 | 33 |
| 22 | 220 | | | 4×5 | 28 | 5×5 | 33 | 5×5 | 37 | 6.3×5 | 42 | 6.3×5 | 46 | | \Box |
| 33 | 330 | 5×5 | 28 | 5×5 | 37 | 5×5 | 41 | 6.3×5 | 49 | 6.3×5 | 52 | | i | | |
| 47 | 470 | 5×5 | 33 | 5×5 | 45 | 6.3×5 | 52 | 6.3×5 | 58 | | - | | ! | Case size | Rated |
| 100 | 101 | 6.3×5 | 56 | 6.3×5 | 70 | | | | i | | i | | 1 | φD×L (mm) | Rated ripple |

Rated Ripple (mArms) at 85°C 120Hz

Frequency coefficient of rated ripple current

| Frequency | 50 Hz | 120 Hz | 300 Hz | 1 kHz | 10 kHz or more |
|-------------|-------|--------|--------|-------|----------------|
| Coefficient | 0.70 | 1.00 | 1.17 | 1.36 | 1.50 |

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.