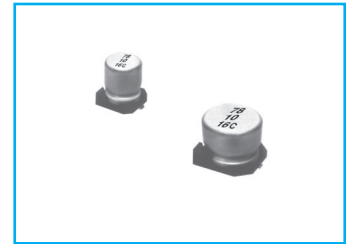


SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

CN 105°C Non-polarized Series

NP Non-polarized **S** Solvent Proof



- Chip type, Non-polarized, Wide temperature 105°C
- Chip type with 5.5mmL height
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive

NC ⇨ **CN**
Wide temp.

| Item | Characteristics | | | | | | | |
|--|--|-----------------------------------|------|------|------|------|------|--|
| Operating temperature range | WV ≤ 25 : -55 ~ +105°C WV ≥ 35 : -40 ~ +105°C | | | | | | | |
| Leakage current max. | I = 0.05CV or 10μA whichever is greater (after 2 minutes) | | | | | | | |
| Capacitance tolerance | ±20% at 120Hz, 20°C | | | | | | | |
| Dissipation factor max. (at 120Hz, 20°C) | WV | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | tanδ | 0.32 | 0.26 | 0.24 | 0.20 | 0.18 | 0.18 | |
| Low temperature characteristics (Impedance ratio at 120Hz) | WV | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | Z-25°C/Z+20°C | 4 | 3 | 2 | 2 | 2 | 2 | |
| | Z-40°C/Z+20°C | - | - | - | - | 4 | 4 | |
| | Z-55°C/Z+20°C | 8 | 5 | 4 | 3 | - | - | |
| Load life (after application of the rated voltage for 1000 hours at 105°C) | Leakage current | Less than specified value | | | | | | |
| | Capacitance change | Within ±20% of initial value | | | | | | |
| | tanδ | Less than 200% of specified value | | | | | | |
| | Test method | Polarity reverse each 250 hours | | | | | | |
| Shelf life (at 105°C) | After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4 | | | | | | | |
| Resistance to soldering heat | The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 10 seconds. | | | | | | | |
| | Leakage current | Less than specified value | | | | | | |
| | Capacitance change | Within ±10% of initial value | | | | | | |
| | tanδ | Less than specified value | | | | | | |

● DRAWING (See page 85)

-Series code of CN is "C"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| μF \ WV | 6.3 | 10 | 16 | 25 | 35 | 50 |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1.0 | | | | | | 4×5.3 8.4 |
| 2.2 | | | | | 4×5.3 8.4 | 5×5.3 13 |
| 3.3 | | | | 5×5.3 12 | 5×5.3 16 | 5×5.3 17 |
| 4.7 | | | 4×5.3 12 | 5×5.3 16 | 5×5.3 18 | 6.3×5.3 20 |
| 10 | | 4×5.3 17 | 5×5.3 23 | 6.3×5.3 27 | 6.3×5.3 29 | |
| 22 | 5×5.3 28 | 6.3×5.3 33 | 6.3×5.3 37 | | | |
| 33 | 6.3×5.3 37 | 6.3×5.3 41 | 6.3×5.3 49 | | | |
| 47 | 6.3×5.3 45 | | | | | |

↑ ↑
Ripple current (mA rms) at 105°C, 120Hz
Case size ØD×L (mm)