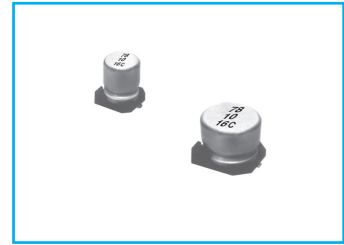


SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

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 \rightleftarrows **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 10 μ A whichever is greater (after 2 minutes)						
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C						
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35	50
	tan δ	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 $\pm 20\%$ of initial value					
	tan δ	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 tan δ 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 $\pm 10\%$ of initial value					
	tan δ	Less than specified value					

● DRAWING (See page 99)

Unit : mm

-Series code of CN is "C"

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μ F \diagdown 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 $\varnothing D \times L$ (mm)