

# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

**NC** Chip type, Non-polarized Series

- Chip type with 5.5mm height
- Designed for surface mounting on high density PC board
- Applicable to automatic mounting machine using carrier tape

**NP** Non-polarized **S** Solvent Proof

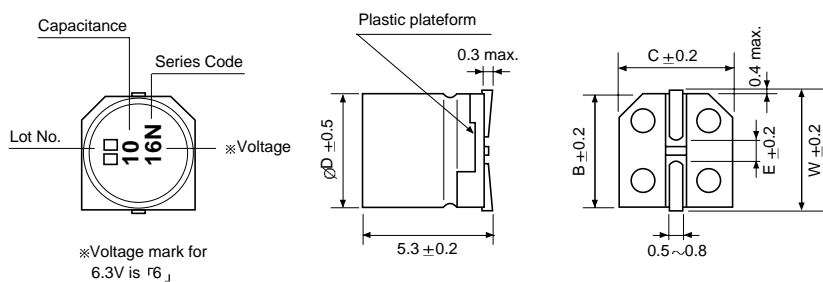
SC  $\Rightarrow$  **NC**  $\Rightarrow$  CN  
Non-polar Wide temp.



Item	Characteristics							
Operating temperature range	-40 ~ +85℃							
Leakage current max.	I = 0.05CV or 10 <sub>μ</sub> A whichever is greater (after 2 minutes)							
Capacitance tolerance	±20% at 120Hz, 20℃							
Dissipation factor max. (at 120Hz, 20℃)	WV	6.3	10	16	25	35	50	
	tan δ	0.24	0.20	0.17	0.17	0.15	0.15	
Low temperature characteristics (Impedance ratio at 120Hz)	WV		6.3	10	16	25	35	50
	Z-25℃/Z+20℃		4	3	2	2	2	2
	Z-40℃/Z+20℃		8	6	4	4	3	3
Load life (after application of the rated voltage for 2000 hours at 85℃)	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 85℃)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.							
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them at 250℃ for 30 seconds.							
	Leakage current			Less than specified value				
	Capacitance change			Within ±10% of initial value				
	tanδ			Less than specified value				

## DRAWING

Unit : mm



$\phi D$	W	B	C	E
4	4.8	4.3	4.3	1.0
5	6.0	5.3	5.3	1.4
6.3	7.1	6.6	6.6	2.2

## DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

$\mu F$	WV	6.3	10	16	25	35	50
0.1							4×5.3 1.0
0.22							4×5.3 2.0
0.33							4×5.3 2.8
0.47							4×5.3 4.0
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 85℃, 120Hz  
Case size  $\phi D \times L$  (mm)