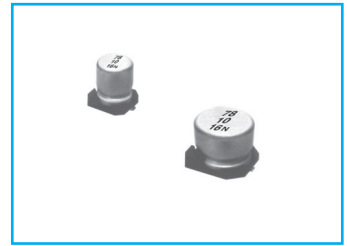


NC Chip type, Non-polarized Series

NP Non-polarized **S** Solvent Proof



- 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

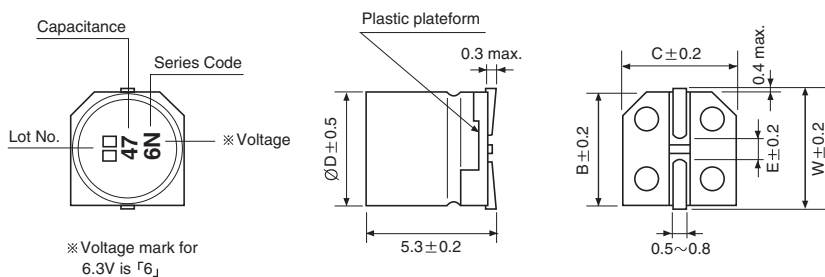


Item	Characteristics
Operating temperature range	-40 ~ +85°C
Leakage current max.	$I = 0.05CV$ or $10\mu A$ whichever is greater (after 2 minutes)
Capacitance tolerance	$\pm 20\%$ at 120Hz, 20°C
Dissipation factor max. (at 120Hz, 20°C)	WV 6.3 10 16 25 35 50
	tan δ 0.24 0.20 0.17 0.17 0.15 0.15
Low temperature characteristics (Impedance ratio at 120Hz)	WV 6.3 10 16 25 35 50
	Z-25°C/Z+20°C 4 3 2 2 2 2
	Z-40°C/Z+20°C 8 6 4 4 3 3
Load life (after application of the rated voltage for 2000 hours at 85°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 85°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

Unit : mm

-Series code of NC is "N"



ϕD	W	B	C	E
4	4.8	4.3	4.3	1.0
5	5.8	5.3	5.3	1.4
6.3	7.1	6.6	6.6	2.2

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 85°C, 120Hz
 Case size $\phi D \times L$ (mm)