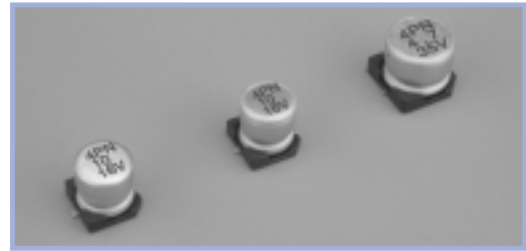


CNU SERIES

Chip type, For surface mounting

Features

- Life time : 105°C, 1000 hours
- Bi-polar, standard
- Wide temperature range
- For surface mounting

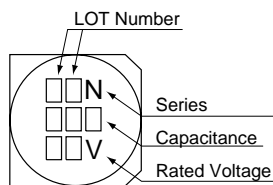


Specifications

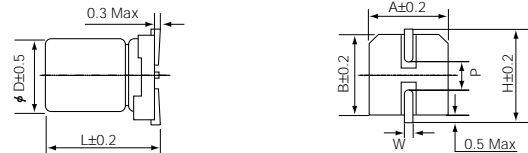
Item	Performance Characteristics						
Operating temperature range	- 40°C ~ +105°C						
Rated working voltage range	6.3V ~ 50V						
Nominal capacitance range	0.1 μF ~ 47 μF, ± 20% (at 20°C, 120Hz)						
D.C Leakage current (at 20°C)	I ≤ 0.05CV or 10 μA (2min), Whichever is greater.						
Tan δ (max., at 20°C, 120Hz)	W.V(V)	6.3	10	16	25	35	50
	Tan δ	35	26	24	20	18	18
Characteristics at low temperature (max.) (impedance ratio at 120Hz)	W.V(V)	6.3	10	16	25	35	50
	Z - 25°C/+ 20°C	4	3	2	2	2	2
	Z - 40°C/+ 20°C	15	10	8	6	4	2
Load life	After applying rated working voltage for 1000 hrs at +105°C and then being stabilized at +20°C, During this test, the rated voltage shall be reversed on the capacitor every 250hrs, capacitors shall meet following limits.						
	Capacitance change	Within ± 30% of the initial measured value					
	Tan δ	≤ 300% of the initial specified value					
	Leakage current	≤ The initial specified value					
Shelf life	After storage for 500 hrs at +105°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet load life specification.						
Resistance to soldering heat	After reflow soldering (Refer to reflow soldering temperature profile ; see page 13) and then being stabilized at +20°C, capacitors shall meet following limits.						
	Capacitance change	Within ± 25% of the initial measured value					
	Tan δ	≤ 200% of initial specified value					
	Leakage current	≤ The initial specified value					

Chip

Marking



Dimensions in mm (not to scale)



Size code	D	L	A	B	P	H	W
B	4	5.3	4.3	4.3	1.0	5.0	0.5-0.8
C	5	5.3	5.3	5.3	1.5	5.9	0.5-0.8
D	6.3	5.3	6.6	6.6	2.0	7.2	0.5-0.8
D ₁	6.3	5.7	6.6	6.6	2.0	7.2	0.5-0.8

Dimensions & Maximum permissible ripple current

Cap(μF)	W.V(V)	6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)	
		SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r
0.1												B	1.0
0.22												B	2.0
0.33												B	2.8
0.47												B	4.0
1.0												B	8.4
2.2										B	8.4	C	13
3.3						B	10	C	16	C	16	C	17
4.7						B	12	D	16	D	18	D	20
10				B	17	C	23	D ₁	27	D ₁	23		
22	C	28											
33				D	35	D ₁	49						
47	C ₁	45											

I_r : Maximum permissible ripple current [mA(rms) at 105°C, 120Hz]