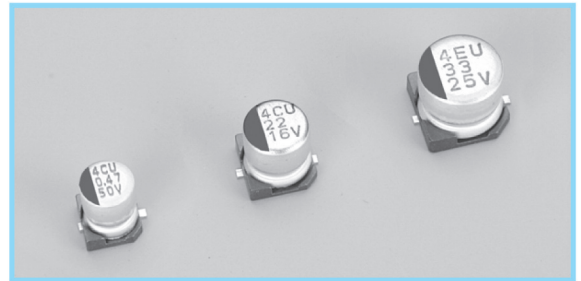


# CU SERIES

Chip type, 105°C, Standard

## Features

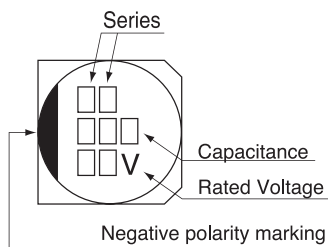
- Load life : 105°C, 1000 hours
- 5.5 mm Height
- For surface mounting



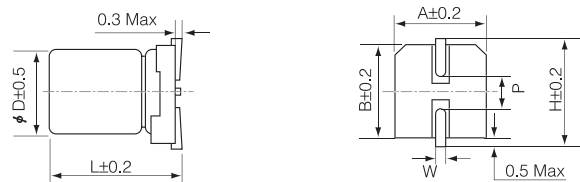
## Specifications

Item	Performance Characteristics							
Operating temperature range	-40°C ~ +105°C							
Rated working voltage range	6.3V ~ 50V							
Nominal capacitance range	0.1µF ~ 100µF, ±20%(at 20°C, 120Hz)							
D.C Leakage current(at 20°C)	I ≤ 0.01CV or 3µA(2min), Whichever is greater.							
Tan δ (max., at 20°C, 120Hz)	W.V(V)	6.3	10	16	25	35	50	
	Tan δ	0.30	0.22	0.16	0.14	0.12	0.12	
Characteristics at low temperature (max.) (impedance ratio at 120Hz)	W.V(V)	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 applying rated working voltage for 1000 hours at +105°C, and then being stabilized at +20°C, capacitors shall meet following limits.							
	Capacitance change	Within ± 20% of the initial measured value						
	Tan δ	≤ 200% of the initial specified value						
	Leakage current	≤ The initial specified value						
Shelf life	After storage for 1000 hours 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 15) and then being stabilized at +20°C, capacitors shall meet following limits.							
	Capacitance change	Within ± 10% of the initial measured value						
	Tan δ	≤ The initial specified value						
	Leakage current	≤ The initial specified value						

## Marking



## Dimensions in mm (not to scale)



Size code	φD	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

## 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 <sub>R</sub>	SIZE	I <sub>R</sub>	SIZE	I <sub>R</sub>	SIZE	I <sub>R</sub>	SIZE	I <sub>R</sub>	SIZE	I <sub>R</sub>
0.1												B	1
0.22												B	2
0.33												B	3
0.47												B	5
1.0												B	8
2.2												B	13
3.3										B	15	B	16
4.7							B	20	B	21	C	22	35
10				B	18	B	20	C	26	C	30	D	35
22	B	25	C	30	C	35	D	48	D	52			
33	C	33	C	37	D	45	D	60					
47	C	42	D	52	D	57							
100	D	70											

I<sub>R</sub> : Maximum permissible ripple current [mA(rms) at 105°C, 120Hz]