

CUH SERIES

Chip type, For surface mounting

Features

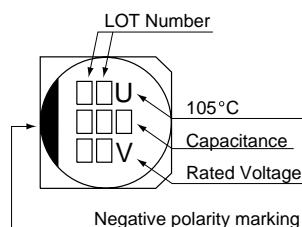
- Life time : 105°C, 2000 hours
- Miniature of CU
- Expand up to 10 case sizes
- For surface mounting



Specifications

Item	Performance Characteristics							
Operating temperature range	- 40°C ~ +105°C							
Rated working voltage range	6.3V ~ 50V							
Nominal capacitance range	0.1μF ~ 1000μF, ±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	0.35	0.26	0.20	0.16	0.14	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	4	3	
Load life	After applying rated working voltage for 2000 hours (4, 5, 6.3: 1000hours, 8, 10 : 2000hours) at +105°C and then being stabilized at +20°C, the 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 13) 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	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
D ₂	6.3	7.7	6.6	6.6	2.0	7.2	0.5-0.8
E	8	6.3	8.3	8.3	2.3	9.0	0.5-0.8
F	8	10.0	8.3	8.3	3.1	9.0	0.8-1.1
G	10	10.0	10.3	10.3	4.5	11.0	0.8-1.1

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		
2.2												B	13		
3.3												B	16		
4.7								B	20	B	21	C	22		
10						B	20	C	26	C	30	D	35		
22	B	23	C	30	C	35	D	48	D	52	D ₁	E	70		
33	C	33	C	39	D	45	D	60	D ₁	E	80	D ₂	F	135	
47	C	42	D	46	D	57	D ₁	E	91	F	120	D ₂	G	160	
100	D	70	D ₁	E	92	D ₁	E	140	D ₂	F	130	G	210	G	250
220	D ₂	F	150	D ₂	F	160	D ₂	G	220	G	220	G	330		
330	D ₂	F	240	G	210	G	290	G	250						
470	G	430	G	270	G	400									
1000	G	510													

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