

CHIP TYPE

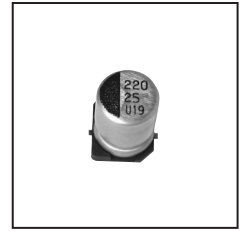
CU Series

Aluminum Electrolytic Capacitor Surface Mounted Device

JAMICON®

Features

- Load life : 105°C 3000~5000 hours.
- For high density mounting.

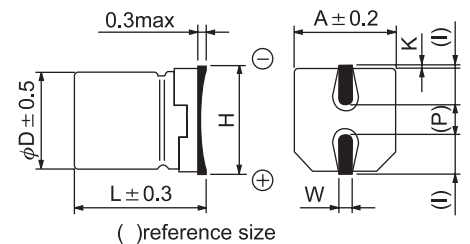


SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	I ≤ 0.01CV or 3 (μA) Whichever is greater after 2 minutes				I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)			
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	
	S.V.	8	13	20	32	44	63	
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF							
	W.V.	6.3	10	16	25	35	50	
	tan δ	0.28	0.24	0.20	0.16	0.13	0.12	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16	25	35	50	
	-25°C / +20°C	4	3	2	2	2	2	
	-55 °C / +20°C	10	7	5	3	3	3	
Load Life	After hours (φD ≤ 6.3mm 3000 hours, φD ≥ 8mm 5000 hours) application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)							
	Capacitance Change	≤ ±30% of initial value						
	Dissipation Factor	≤ 300% of initial specified value						
	Leakage current	≤ initial specified value						
Shelf Life	At +105°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)							
Resistance to Soldering Heat	Capacitor placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.							
	Capacitance Change	≤ ±10% of initial value						
	Dissipation Factor	≤ initial specified value						
	Leakage current	≤ initial specified value						

DIMENSIONS (mm)

D	L	A	H	I	W	P	K
4.0	5.8	4.3	5.5MAX	1.8	0.65±0.1	1.0	0.35 ^{+0.15} _{-0.20}
5.0	5.8	5.3	6.5MAX	2.2	0.65±0.1	1.5	0.35 ^{+0.15} _{-0.20}
6.3	5.8	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 ^{+0.15} _{-0.20}
6.3	7.7	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 ^{+0.15} _{-0.20}
8.0	10.2	8.3	10.0MAX	3.4	0.9±0.2	3.1	0.70±0.20
10.0	10.2	10.3	12.0MAX	3.5	0.9±0.2	4.6	0.70±0.20



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max ripple current : mA(rms) 105°C 120Hz

μF	V(Code) Code Item	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
		DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.1	0R1											4x5.4	2
0.22	R22											4x5.4	3
0.33	R33											4x5.8	4
0.47	R47											4x5.8	5
1.0	010											4x5.8	7
2.2	2R2											4x5.8	11
3.3	3R3											4x5.8	13
4.7	4R7									4x5.8	17	5x5.8	18
10	100					4x5.8	18	5x5.8	23	5x5.8	25	6.3x5.8	30
22	220	4x5.8	23	5x5.8	28	5x5.8	30	6.3x5.8	39	6.3x5.8	43	6.3x7.7	60
33	330	5x5.8	31	5x5.8	34	6.3x5.8	43	6.3x5.8	48	6.3x7.7	70	8x10.2	90
47	470	5x5.8	38	6.3x5.8	47	6.3x5.8	50	6.3x7.7	75	8x10.2	100	8x10.2	120
100	101	6.3x5.8	65	6.3x7.7	85	6.3x7.7	95	8x10.2	140	10x10.2	170	10x10.2	180
220	220	6.3x7.7	120	8x10.2	170	10x10.2	210	10x10.2	230	10x10.2	260		
330	331	8x10.2	190	10x10.2	230	10x10.2	260	10x10.2	290				
470	471	10x10.2	260	10x10.2	280	10x10.2	330						
1000	102	10x10.2	380										

