Features

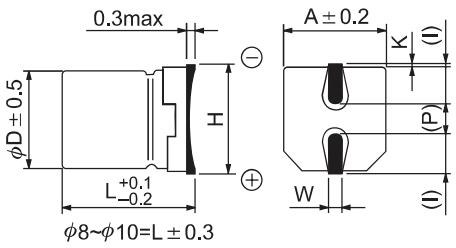
- 105°C 1000hours.
- For high density mounting.
- Corresponding product to RoHS

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)	W.V.		6.3	10	16	25	35	50
	tan δ	φ4 ~ φ6.3	0.30	0.22	0.16	0.14	0.12	0.12
		φ8 ~ φ10	0.35	0.26	0.20	0.16	0.14	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
	-40°C / +20°C		8	6	4	4	3	3
Load Life	After 1000 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 for 6.3 W.V., ≦±25% of initial value for 10~50 W.V.						
	Dissipation Factor	≦200% 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 folowing 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	5.4	4.3	5.5MAX	1.8	0.65±0.1	1.0	0.35 $^{+0.15}_{-0.20}$
5.0	5.4	5.3	6.5MAX	2.2	0.65±0.1	1.5	0.35 $^{+0.15}_{-0.20}$
6.3	5.4	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 $^{+0.15}_{-0.20}$
8.0	6.2	8.3	9.5MAX	3.4	0.65±0.1	2.2	0.35 $^{+0.15}_{-0.20}$
8.0	10.2	8.3	10.0MAX	3.4	0.90±0.2	3.1	0.70 ±0.20
10.0	10.2	10.3	12.0MAX	3.5	0.90±0.2	4.6	0.70 ±0.20



( )reference size

CASE SIZE & MAX RIPPLE CURRENT

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

V(DC) / Item / μF	6.3		10		16		25		35		50	
	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.	DxL	R.C.
0.1											4x5.4	2
0.22											4x5.4	4
0.33											4x5.4	4
0.47											4x5.4	5
1.0											4x5.4	8
2.2											4x5.4	11
3.3											4x5.4	14
4.7							4x5.4	14	4x5.4	15	5x5.4	19
10					4x5.4	19	5x5.4	23	5x5.4	25	6.3x5.4	31
22	4x5.4	23	5x5.4	29	5x5.4	32	6.3x5.4	39	6.3x5.4	42	8x6.2	60
33	5x5.4	32	5x5.4	35	6.3x5.4	45	6.3x5.4	48	6.3x5.4 8x6.2	50 70	8x10.2	90
47	5x5.4	38	6.3x5.4	48	6.3x5.4	55	6.3x5.4 8x6.2	60 75	8x10.2	100	8x10.2 10x10.2	110 120
100	6.3x5.4	65	6.3x5.4 8x6.2	70 90	6.3x5.4 8x10.2	80 120	8x10.2	140	8x10.2 10x10.2	150 170	8x10.2 10x10.2	160 180
220	6.3x5.4	95	8x10.2	160	8x10.2 10x10.2	180 210	8x10.2 10x10.2	200 230	8x10.2 10x10.2	220 250	10x10.2	270
330	8x10.2	170			8x10.2 10x10.2	220 260	8x10.2 10x10.2	250 290	10x10.2	300		
470			8x10.2 10x10.2	230 270	8x10.2 10x10.2	270 300	10x10.2	340				
1000	8x10.2 10x10.2	290 340										
1500	10x10.2	410										

CHIP TYPE