

- SMD TYPE Reflow Soldering is available
- Life 2000 hours at 105°C
- Available For High Density Mounting

Characteristics

Category Temperature Range	6.3 ~ 100V						160 ~ 450V					
	-55°C ~ +105°C						-40°C ~ +105°C					
Capacitance Tolerance	+20% -20% (at 20°C, 120Hz)											
Leakage Current	SIZE A~F: $I \leq 0.01CV$ or $3\mu A$, whichever is greater 2 minutes after Rated Voltage applied SIZE G~J(6.3V~100V): $I \leq 0.03CV$ whichever is greater 2 minutes after Rated Voltage applied SIZE G~J (160V~450V): $I \leq 0.04CV + 100\mu A$ whichever is greater 5 minutes after rated voltage applied											
Dissipation Factor ($\tan \delta$)Max (at 20°C, 120Hz)	Voltage (V)	6.3	10	16	25	35	50	63	100	160~250	400~450	
	SIZE A~F	0.45	0.35	0.28	0.18	0.16	0.14	0.12	0.12	-	-	
	SIZE G~J	0.45	0.38	0.34	0.26	0.22	0.18	0.14	0.10	0.20	0.25	
Stability at Low Temperature (at 120Hz)	Voltage (V)		6.3	10	16	25	35	50	63	100	160~250	400~450
	Z -25°C	SIZE A~F	4	4	3	2	2	2	2	3	-	-
	/Z +20°C	SIZE G~J	5	4	3	2	2	2	2	2	3	6
	Z -40°C	SIZE A~F	12	8	6	4	3	3	3	4	-	-
/Z 20°C	SIZE G~J	10	8	6	4	3	3	3	3	6	10	
Load Life	After the rated voltage has been applied for 2000 hours at 105°C		Capacitance change	Within $\pm 25\%$ of initial value(SIZE G~I: $\pm 20\%$)								
			D.F. $\tan \delta$	Less than $\pm 300\%$ of specified value(SIZE D~I: $\pm 200\%$)								
			Leakage current	Less than Initial specified value								
Shelf Life	After storage for 1000 hours at 105°C, with no voltage applied and being stabilized at +20°C, Capacitor shall meet the limit specified in load life.(Refer to JIS C5101-4 4.1)											

Diagram of dimensions

SIZE	D ϕ	L	A	C	B	W	P ± 0.2
A	4	5.5	4.3	4.3	5.1	0.5~0.8	1.0
B	5	5.5	5.3	5.3	6.1	0.5~0.8	1.5
C	6.3	5.7	6.6	6.6	7.4	0.5~0.8	2.0
C8	6.3	7.7	6.6	6.6	7.4	0.5~0.8	2.0
D	8	6.5	8.4	8.4	9.2	0.7~1.1	3.1
E	8	10.5	8.34	8.34	9.2	0.7~1.1	3.1
F	10	10.5	10.4	10.4	11.2	0.7~1.1	4.7
G	12.5	13.5	13.0	13.0	15.0	1.1~1.4	4.4
H	12.5	16.0	13.0	13.0	15.0	1.1~1.4	4.4
I	16	16.5	17.0	17.0	19.0	1.1~1.4	6.4
J	18	16.5	19.0	19.0	21.0	1.1~1.4	6.4

Size A~F refer to Fig. 1

Size G~J refer to Fig. 2

Fig. 1

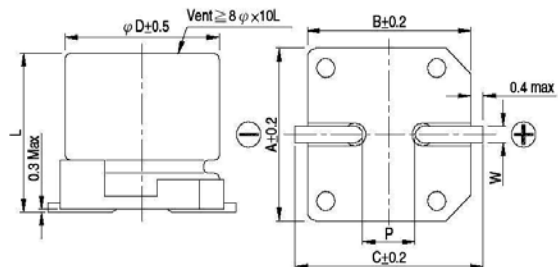
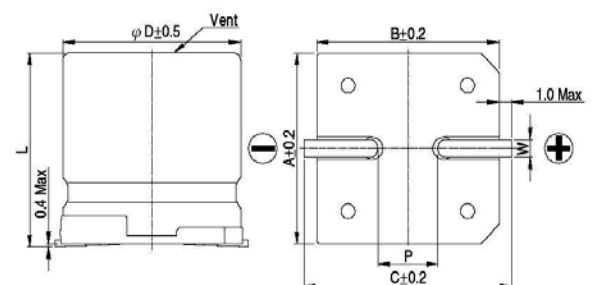


Fig. 2



Case size & Maximum Ripple Current

mA rms 105°C 120Hz

Cap. ^{WV}	6.3		10		16		25		35		50	
μF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											A	2
0.22											A	3
0.33											A	4
0.47											A	5
1											A	8
2.2											A	12
3.3											A	14
4.7											A,B	16/20
10					A	20	A,B	20/23	B	27	C	32
22			A	22	B	30	B,C	30/38	C	44	C,D	38/55
33			B	34	B	34	C	46	C,D	46/54	C8,E	65/135
47	B	38	B	38	C	48	C	48	C8,D	80	C8,E	70/155
100	C	69	C	69	C,D	69	C8,E	100/180	E	240	E,F	210/330
220	C8	120	C8,D	120/140	C8,E	120/185	E	270	E,F	270/380	F	330
330	E	290	E	290	E,F	290	E,F	290/380	F	380	G	490
470	E	320	E,F	320/410	E,F	320/380	F	380	G	520	I	550
1000	F	410	F	410	G	550	H	550	I	800	J	990
2200	G	680	G,H	680/750	I	900	I	900	J	1050		
3300	H	850	I	950	I	950	J	1150				
4700	I	1000	I	1000	J	1225						
6800	J	1290	J	1290								

Cap. ^{WV}	63		100		160		200		250		400		450	
μF	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47	A	5												
1	A	8												
2.2	A	12												
3.3	B	17							G	60			G	40
4.7	C	22							G	65	G	45	G	45
10	C	32					G	80	G	70	G	50	H	75
22	C8	58	E	100			H	110	G	105	I	85	I	85
33	E	140	F	150	G	95	H	120	I	180	J	100	J	100
47	E	170	G	250	I	240	I	220	I	220				
100	F	310	G	380	I	250	J	280	J	260				
220	G	470	I	450										
330	I	650	J	590										
470	I	700												