

- SMD Low Impedance Type. Reflow Soldering is available.
- 4~18  $\phi$ , 105°C, 2000 ~ 5000 hours load life., Rohs compliant
- Available For High Density Mounting

**Characteristics**

<b>Voltage Range</b>	6.3 to 100 VDC									
<b>Capacitance Range</b>	1.0 to 6800uF									
<b>Temperature Range</b>	-55 to +105°C									
<b>Capacitance Tolerance</b>	+/-20% (at 20°C, 120Hz)									
<b>Leakage Current</b>	I≤0.01CV or 3uA, whichever is greater, 2 minutes after Rated Voltage applied, where C = Rated Capacitance, V = Rated DC working voltage									
<b>Dissipation Factor (tan δ)Max</b>	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100
	D.F.( tanδ)	0.30	0.26	0.22	0.16	0.13	0.10	0.08	0.08	0.07
	(at 20°C, 120Hz)									
<b>Stability at Low Temperature (at 120Hz )</b>	Impedance ratio shall not exceed the values given in the table below:									
	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100
	Z-25°C/Z 20°C	4	3	2	2	2	2	2	2	2
Z-55°C/Z 20°C	8	5	4	3	3	3	3	3	3	
<b>Load Life</b>	2000hrs for $\phi D \leq 6.3\text{mm}$ , 5000hrs for $\phi D \geq 8\text{mm}$ After the rated voltage has been applied for 2000~5000 hours at 105°C			Capacitance change		Within ±30% of initial value				
				D.F. (tanδ)		300% or less of initial specified value				
				Leakage current		Less than initial specified value				
<b>Shelf Life</b>	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.									
<b>Ripple current &amp; Frequency Multipliers</b>	Frequency ( Hz )	50,60		120		1K		10K up		
	Multipliers	0.60		0.70		0.85		1.0		

**Diagram of dimensions**

SIZE	Dφ	L	A	C	B	W	P±0.2
A	4	5.5	4.3	5.1	4.3	0.5~0.	1.0
B	5	5.5	5.3	6.1	5.3	0.5~0.	1.5
C	6.3	5.7	6.6	7.4	6.6	0.5~0.	2.0
C8	6.3	7.7	6.6	7.4	6.6	0.5~0.	2.0
D	8	6.5	8.4	9.2	8.4	0.7~1.	2.2
E	8	10.5	8.34	9.2	8.34	0.7~1.	3.1
F	10	10.5	10.4	11.2	10.4	0.7~1.	4.7
G	12.5	13.5	13.0	15.0	13.0	1.1~1.	4.4
H	12.5	16.0	13.0	15.0	13.0	1.1~1.	4.4
I	16	16.5	17.0	19.0	17.0	1.1~1.	6.4
J	18	16.5	19.0	21.0	19.0	1.1~1.	6.4

Size A~F refer to Fig. 1

Size G~J refer to Fig. 2

Fig. 1

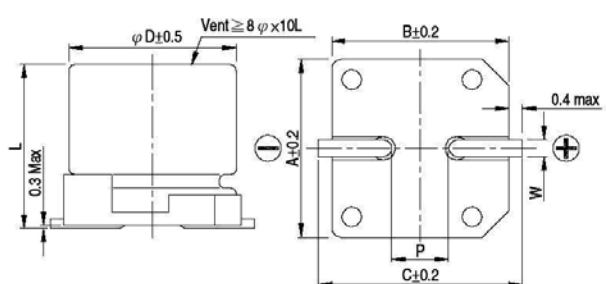
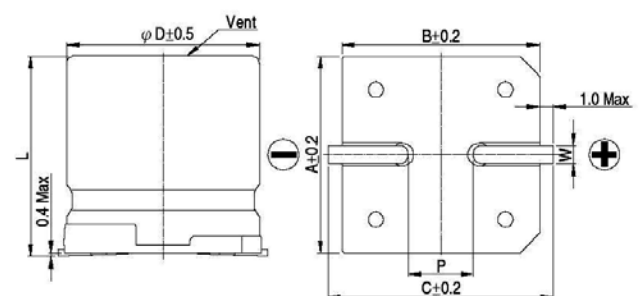


Fig. 2



## Case size & Maximum Ripple Current(mA rms 105°C 100KHz) & Imp. ( $\Omega$ 20°C 100KHz)

Cap. $\mu$ F	6.3			10			16			25			35			50		
	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.
1																A	60	2.9
2.2																A	60	2.9
3.3																A	60	2.9
4.7													A	80	1.35	B	85	1.52
10							A	80	1.35	A	80	1.35	B	150	0.76	C	165	0.88
22				A	80	1.80	B	150	0.76	B	150	0.76	B C	150 230	0.76 0.44	C	165	0.88
33	A	80	1.35	B	150	0.76	C	230	0.44	C	230	0.44	C	230	0.44	C8 E	185 300	0.68 0.34
47	B	150	0.76	C	230	0.44	C	230	0.44	C	230	0.44	C D	230 280	0.44 0.32	C8 E	185 369	0.68 0.34
100	C	230	0.44	C	230	0.44	C D	230	0.44 0.44	C8 E	280 450	0.34 0.17	E F	450 670	0.17 0.14	E F	369 553	0.34 0.18
150	C	230	0.44	C	230	0.44	C8	280	0.36	E	450	0.17	E	450	0.17	F	553	0.18
220	C	230	0.44	C8	280	0.34	C8 E	280 450	0.34 0.17	E F	450 670	0.17 0.09	E F	450 670	0.17 0.09	F	670	0.18
330	C8 E	280 450	0.34 0.17	E F	450 510	0.17 0.15	E F	450 510	0.17 0.15	E F	450 670	0.17 0.09	F	670	0.09	G	650	0.12
470	E	450	0.17	E F	450 670	0.17 0.09	E F	450 670	0.17 0.09	F	670	0.09	H	950	0.06	I	1000	0.073
680	E	450	0.17	F	670	0.09	F	670	0.09	G	820	0.07	H	950	0.06	I	1000	0.073
1000	E F	450 553	0.17 0.09	F	670	0.09	G	820	0.07	H	950	0.06	I	1260	0.054	J	1500	0.066
1500	F	670	0.09	G	820	0.07	H	950	0.06	I	1260	0.054	J	1500	0.048			
2200	G	820	0.07	H	950	0.06	I	1260	0.054	I	1260	0.054						
3300	H	950	0.06	I	1260	0.054	I	1260	0.054	J	1500	0.048						
4700	I	1260	0.054	I	1260	0.054	J	1500	0.048									
6800	J	1500	0.048	J	1500	0.048												

Cap. $\mu$ F	63			80			100		
	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.
4.7	B	70	1.90						
10	C	130	1.20						
22	C8	150	0.90	E	130	1.30	E	130	1.30
33	E	280	0.50	E	130	1.30	F	200	0.70
47	E	280	0.50	F	200	0.70	F	200	0.70
100	F	450	0.25	F	200	0.70	G	450	0.32
150	G	700	0.15	G	450	0.32	H	550	0.26
220	G	700	0.15	H	550	0.26	I	650	0.17
330	I	900	0.082	I	650	0.17	J	850	0.15
470	I	900	0.082	J	850	0.15			
680	J	1150	0.080						