

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

Characteristics

Voltage Range	6.3 to 100 VDC									
Capacitance Range	1.0 to 6800uF									
Temperature Range	-55 to +105°C									
Capacitance Tolerance	+/-20% (at 20°C, 120Hz)									
Leakage Current	I≤0.01CV or 3uA, whichever is greater, 2 minutes after Rated Voltage applied, where C = Rated Capacitance, V = Rated DC working voltage									
Dissipation Factor (tan δ)Max	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)									
Stability at Low Temperature (at 120Hz)	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
Load Life	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				
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.									
Ripple current & Frequency Multipliers	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.	3.1
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

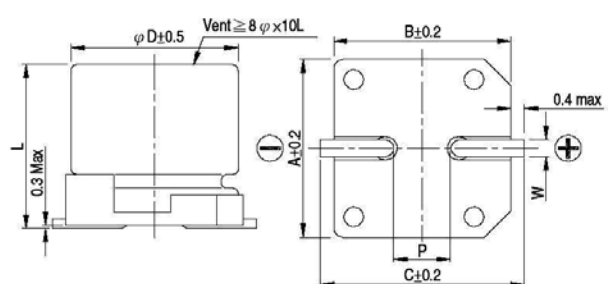
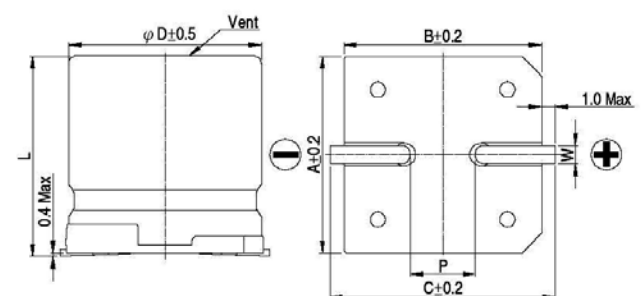


Fig. 2



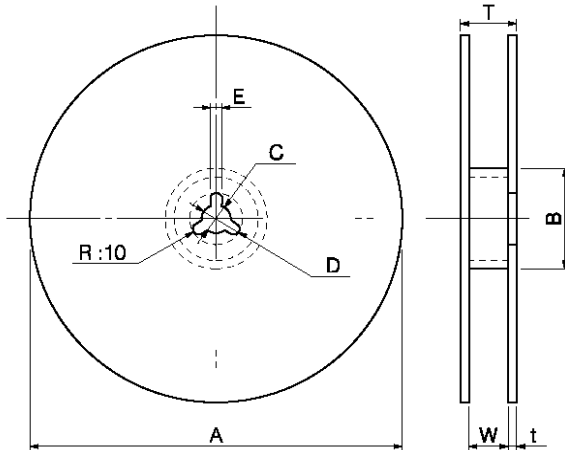
Case size & Maximum Ripple Current(mA rms 105°C 100KHz) & Imp. (Ω 20°C 100KHz)

Cap. μ 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	150	0.76	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	185	0.68
47	B	150	0.76	C	230	0.44	C	230	0.44	C	230	0.44	C	230	0.44	C8	185	0.68
100	C	230	0.44	C	230	0.44	C	230	0.44	C8	280	0.34	E	450	0.17	E	369	0.34
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	280	0.34	E	450	0.17	E	450	0.17	F	553	0.18
330	C8	280	0.34	E	450	0.17	E	450	0.17	E	450	0.17	F	670	0.09	F	553	0.18
470	E	450	0.17	E	450	0.17	E	450	0.17	F	670	0.09	F	670	0.09	F	553	0.18
680	E	450	0.17	F	670	0.09	F	670	0.09	F	670	0.09	F	670	0.09	H	950	0.06
1000	E	450	0.17	F	670	0.09	F	670	0.09	G	820	0.07	H	950	0.06	H	950	0.06
1500	F	670	0.09	G	820	0.07	H	950	0.06	H	950	0.06	I	1260	0.054	I	1260	0.054
2200	G	820	0.07	H	950	0.06	I	1260	0.054	I	1260	0.054	J	1500	0.048	J	1500	0.048
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. μ 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	0.7	F	200	.07
100	F	450	0.25	F	200	0.7	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	.082	J	850	0.15			
680	J	1150	0.080						

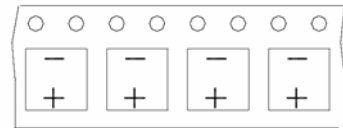
Packaging Specifications

- Reel Dimensions in mm (not to scale)

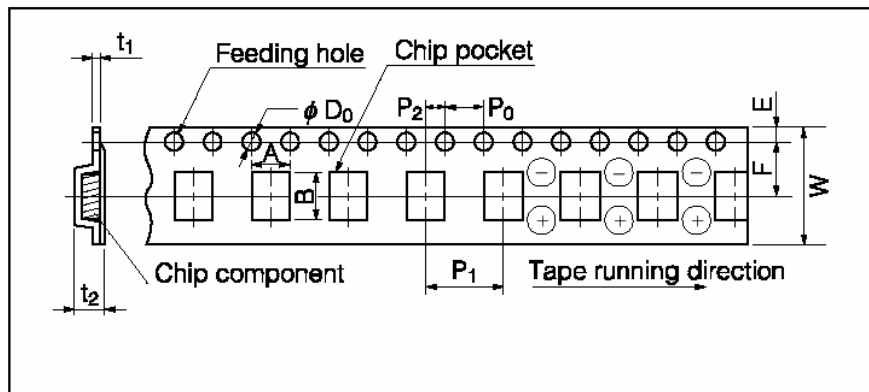


SIZE	A	B	C	D	E	W	t
A,B	380±2	80min	13.0±0.5	21.0±0.8	2.0±0.5	14±1	2.0
C(8),D	380±2	80min	13.0±0.5	21.0±0.8	2.0±0.5	18±1	2.0
E,F	380±2	80min	13.0±0.5	21.0±0.8	2.0±0.5	26±1	2.0
G,H	380±2	80min	13.0±0.5	21.0±0.8	2.0±0.5	34±1	3.0
I	380±2	80min	13.0±0.5	21.0±0.8	2.0±0.5	46±1	3.0
J	380±2	80min	13.0±0.5	21.0±0.8	2.0±0.5	46±1	3.0

→ Pull out direction



- Taping Dimensions in mm (not to scale)



SIZE	W	A	B	P ₀ ±0.1	P ₁	P ₂ ±0.1	F	$\phi D_0^{+0.1}$	t ₁	E	t ₂	Inner Packaging	Outer Packaging
A	12.0	4.7	4.6	4.0	8.0	2.0	5.5	1.5	0.4	1.75	5.8	2000	40,000
B	12.0	5.7	5.7	4.0	12.0	2.0	5.5	1.5	0.4	1.75	5.8	1000	20,000
C	16.0	7.0	7.0	4.0	12.0	2.0	5.5	1.5	0.4	1.75	5.8	1000	16,000
C8	16.0	7.0	7.0	4.0	12.0	2.0	5.5	1.5	0.4	1.75	8.4	1000	16,000
D	16.0	8.7	8.7	4.0	12.0	2.0	7.5	1.5	0.4	1.75	6.8	1000	16,000
E	24.0	8.7	8.7	4.0	16.0	2.0	11.5	1.5	0.4	1.75	11.0	500	6,000
F	24.0	10.7	10.7	4.0	16.0	2.0	11.5	1.5	0.4	1.75	11.0	500	6,000
G	32.0	13.4	13.4	4.0	24.0	2.0	14.2	1.5	0.5	1.75	14.0	200	1,800
H	32.0	13.4	13.4	4.0	24.0	2.0	14.2	1.5	0.5	1.75	17.5	200	1800
I	44.0	17.5	17.5	4.0	28.0	2.0	20.2	1.5	0.5	1.75	17.5	200	1800
J	44.0	19.5	19.5	4.0	32.0	2.0	20.2	1.5	0.5	1.75	17.5	150	1350