

TE Series

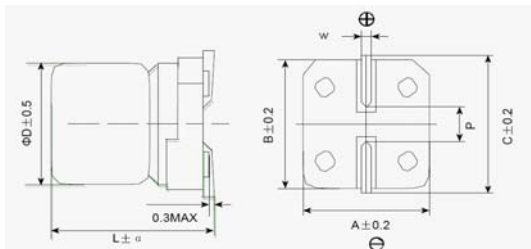
- Suitable for high density mounting
- Endurance: 105°C 2000 hours
- RoHS Compliant



● SPECIFICATIONS

Items	Characteristics													
Category Temperature Range	-40 to +105℃													
Rated Voltage Range	6.3 to 450Vdc													
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)													
Leakage Current	6.3 to 100 V dc								160 to 450 V dc					(at 20℃)
	I≦0.01CV or 3 uA Whichever is greater (at 2 minutes)								I≦0.04CV+100uA (at 1 minute)					
	Where, I: Max .leakage current (u A);C: Nominal capacitance (u F);V: Rated voltage (V).													
Dissipation (tan δ)	Rate voltage(Vdc)		6.3	10	16	25	35	50	63	80	100	160to250	400to450	(at 20℃, 120Hz)
	Tan δ (Max)		0508~0608	0.30	0.24	0.20	0.16	0.14	0.12	0.12	0.12	0.12	0.20	
	Tan δ (Max)		0610~1821	0.40	0.30	0.26	0.16	0.14	0.12	0.12	0.12	0.12	0.15	
Low Temperature Characteristics (Max .Impedance Ratio)	Rate voltage (Vdc)		6.3	10	16	25	35	50	63	80	100	160~250	400~450	(at 120Hz)
	Z(-25℃)/Z(+20℃)		4	3	2	2	2	2	2	2	2	6	6	
	Z(-40℃)/Z(+20℃)		10	8	6	4	3	3	3	3	3	10	18	
Endurance	The following specification shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2000 hours at 105℃.													
	Rate voltage (Vdc)		6.3 to 450V											
	Capacitance Change		≦±20% of the initial value											
	D.F. (tan δ)		≦200% of the initial specified value											
	Leakage Current		≦the initial specified value											
Shelf Life	The following specification shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours(6.3 to 100 Vdc :500 hours) at 105℃,without voltage applied.													
	Rate voltage(Vdc)		6.3 to 450V											
	Capacitance Change		≦±20% of the initial value											
	D.F. (tan δ)		≦200% of the initial specified value											
	Leakage Current		≦200% of the initial specified value											

◆ DIMENSIONS (mm)



Size code	D	L	A	B	C	W	P
0508	5	7.7	5.3	5.3	5.9	0.5~ 0.8	1.4
0608	6.3	7.7	6.6	6.6	7.2	0.5~ 0.8	1.9
0610	6.3	10.5	6.6	6.6	7.2	0.5~ 0.8	1.9
0810	8	10.5	8.3	8.3	9.0	0.7~ 1.1	3.1
0812	8	12.5	8.3	8.3	9.0	0.7~ 1.1	3.1
0814	8	13.5	8.3	8.3	9.0	0.7~ 1.1	3.1
1010	10	10.5	10.3	10.3	11.0	0.7~ 1.1	4.5
1012	10	12.5	10.3	10.3	11.0	0.7~ 1.1	4.5
1014	10	13.5	10.3	10.3	11.0	0.7~ 1.1	4.5
1016	10	16.5	10.3	10.3	11.0	0.7~ 1.1	4.5
1214	12.5	13.5	13.0	13.0	13.7	1.0~ 1.3	4.2
1216	12.5	16.0	13.0	13.0	13.7	1.0~ 1.3	4.2
1221	12.5	21.0	13.0	13.0	13.7	1.0~ 1.3	4.2
1616	16	16.5	17.0	17.0	18.0	1.0~ 1.3	6.5
1621	16	21.5	17.0	17.0	18.0	1.0~ 1.3	6.5
1816	18	16.5	19.0	19.0	20.0	1.0~ 1.3	6.5
1821	18	21.5	19.0	19.0	20.0	1.0~ 1.3	6.5

◆ RATED RIPPLE CURRENT MULTIPLIERS

Freq. (Hz)	120	1K	10K	100K
WV (Vdc)				
6.3 to 450	0.50	0.80	0.90	1.00

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◆ STANDARD RATINGS

WV (Vdc)	Cap (uF)	Size code	tan δ	Ripple current (mA _{rms} /105℃, 100KHz)	WV (Vdc)	Cap (uF)	Size code	tan δ	Ripple current (mA _{rms} /105℃, 100KHz)	
6.3 (0J)	100	0508	0.30	105	160 (2C)	10	1010	0.15	90	
	220	0608	0.30	160		15	1010	0.15	136	
	330	0810	0.40	340		22	1014	0.15	180	
	1000	1010	0.40	860			1214	0.15	200	
10 (1A)	33	0508	0.24	105		33	1016	0.15	240	
	100	0608	0.24	175			1214	0.15	310	
	220	0608	0.24	180		47	1216	0.15	420	
	330	0810	0.30	340			1616	0.15	520	
	470	0810	0.30	360		68	1621	0.15	660	
	820	1010	0.30	860			1816	0.15	660	
16 (1C)	47	0508	0.20	105	100	1621	0.15	780		
	100	0608	0.20	175		1821	0.15	780		
	150	0608	0.20	190	200 (2D)	10	1010	0.15	120	
	220	0810	0.26	500		15	1010	0.15	164	
	330	0810	0.26	545		22	1013	0.15	200	
	470	1010	0.26	800			1216	0.15	236	
25 (1E)	33	0508	0.16	105		33	1016	0.15	260	
	47	0608	0.16	180			1216	0.15	300	
	100	0608	0.16	205		47	1221	0.15	440	
	220	0810	0.16	550			1621	0.15	556	
	330	1010	0.16	780		68	1621	0.15	680	
	470	1012	0.16	875						
35 (1V)	10	0508	0.14	105	250 (2E)	2.2	0610	0.15	56	
	22	0508	0.14	110		3.3	0610	0.15	68	
	47	0608	0.14	210		4.7	0810	0.15	96	
	100	0810	0.14	575			1010	0.15	104	
	220	1010	0.14	835		10	1214	0.15	184	
	330	1012	0.14	900		22	1616	0.15	364	
						33	1621	0.15	470	
				1816			0.15	470		
50 (1H)	10	0508	0.12	90		400 (2G)	47	1821	0.15	580
	22	0608	0.12	175			1	0608	0.20	28
	33	0608	0.12	180	1.5		0610	0.20	36	
	47	0810	0.12	540	2.2		0610	0.20	44	
	100	1010	0.12	700			0810	0.20	52	
	220	1214	0.12	900	3.3		0810	0.20	64	
	330	1216	0.12	1180			1010	0.20	72	
63 (1J)	10	0508	0.12	85	450 (2W)		3.9	0814	0.20	72
	22	0608	0.12	150			1010	0.20	76	
	33	0810	0.12	375			4.7	0810	0.20	78
	47	0810	0.12	450		0812		0.20	80	
	100	1010	0.12	575		1010		0.20	84	
	220	1214	0.12	890		5.6	0812	0.20	96	
	80 (1K)	10	0608	0.12		140	6.8	0814	0.20	108
22		0810	0.12	375		8.2	0816	0.20	130	
33		0810	0.12	450		10	1016	0.20	156	
47		1010	0.12	575			1616	0.20	176	
100		1014	0.12	600	15	1216	0.20	184		
150		1214	0.12	800		1616	0.20	210		
220		1216	0.12	960	22	1621	0.20	260		
100 (2A)	4.7	0508	0.12	70	33	1821	0.20	280		
	10	0608	0.12	135	450 (2W)	2.2	1010	0.20	50	
	22	0810	0.12	345		3.3	1214	0.20	80	
	33	1010	0.12	560		4.7	1214	0.20	96	
	47	1010	0.12	575		10	1616	0.20	170	
	100	1014	0.12	680		15	1621	0.20	200	
				22		1621	0.20	240		