

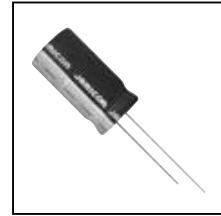
RADIAL TYPE

TZ Series

Long Life, Low Impedance, High Reliability



- Low impedance and long life with standing 5000 hours load life.
- Suitable for electronic ballast, adaptor and switching power.

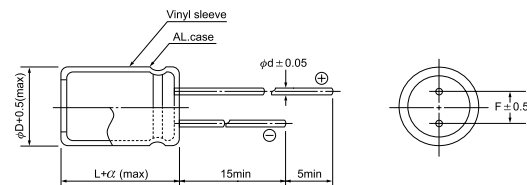


SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 63VDC							
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	63
	S.V.	8	13	20	32	44	63	79
Dissipation Factor (tan δ) (120Hz 20°C)	Add 0.02 per 1000 μF for more than 1000 μF							
	W.V.	6.3	10	16	25	35	50	63
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16	25	35	50	63
	-25°C / +20°C	2	2	2	2	2	2	2
	-55°C / +20°C	3	3	3	3	3	3	3
Load Life	After hours (φ5~6.3mm 2000 hours, φ8mm 3000 hours, φD≥10mm 5000 hours) application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rated working voltage)							
	Capacitance Change	≤ ±20% of initial value						
	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 following limits. (with voltage treatment)							
	Capacitance Change	≤ ±20% of initial value						
	Dissipation Factor	≤ 150% of initial specified value						
	Leakage current	≤ 200% of initial specified value						

DIMENSIONS (mm)

φD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5	1.5	1.5	1.5	1.5	1.5	1.5



RIPPLE CURRENT COEFFICIENTS

Temperature(°c)	65	75	85	95	105
Multiplier	2.12	1.92	1.69	1.50	1.00

Frequency(Hz)	60	120	400	1k	10k	100k
W.V.	Multiplier					
6.3~16V	0.45	0.60	0.83	0.94	0.98	1.00
25~35V	0.38	0.50	0.75	0.90	0.97	1.00
50~63V	0.36	0.46	0.70	0.88	0.94	1.00



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● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 100kHz
 Max ripple current : A(rms) 105°C 100kHz

V(Code)		6.3 (0J)				10 (1A)				16 (1C)				
μF	Code	φD	DxL	IMP.		R.C.	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C			20°C	-10°C	
47	470										5x11	0.568	1.421	0.17
68	680										5x11	0.500	1.250	0.21
100	101						5x11	0.500	1.250	0.24	6.3x11	0.367	0.918	0.29
220	221	6.3x11	0.308	0.769	0.39	6.3x11	0.249	0.623	0.41	8x11.5	0.190	0.474	0.52	
330	331	6.3x11	0.246	0.615	0.48	8x11.5	0.169	0.423	0.61	10x12.5	0.114	0.285	0.75	
470	471	8x11.5	0.178	0.446	0.70	8x11.5	0.139	0.346	0.73	10x12.5	0.093	0.233	0.90	
680	681	10x12.5	0.081	0.203	1.00	10x12.5	0.077	0.194	1.03	10x16	0.074	0.184	1.20	
1000	102	8x20	0.066	0.166	1.31	10x16	0.063	0.158	1.39	10x20	0.060	0.150	1.60	
1200	122	10x16	0.058	0.144	1.47	10x20	0.055	0.137	1.68	10x25	0.052	0.130	1.94	
1500	152	10x20	0.049	0.123	1.75	10x25	0.047	0.116	2.01	12.5x20	0.044	0.111	2.13	
2200	222	10x25	0.038	0.094	2.27	12.5x20	0.036	0.090	2.41	12.5x25	0.034	0.086	2.75	
3300	332	12.5x20	0.032	0.079	2.69	12.5x25	0.030	0.075	3.05	16x25	0.029	0.057	3.14	
4700	472	12.5x30	0.027	0.067	3.56	16x25	0.025	0.051	3.35	16x31.5	0.024	0.048	3.24	
6800	682	16x25	0.024	0.048	3.61	16x31.5	0.023	0.045	3.46	18x35.5	0.022	0.043	3.75	
10000	103	16x31.5	0.022	0.043	3.64	18x35.5	0.021	0.041	3.92	18x40	0.019	0.039	4.20	
15000	153	18x35.5	0.020	0.041	4.12	18x40	0.019	0.039	4.40					

V(Code)		25 (1E)				35 (1V)				
μF	Code	φD	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
4.7	4R7						5x11	1.912	4.781	0.08
10	100						5x11	1.498	3.745	0.11
22	220						5x11	0.817	2.043	0.16
33	330						5x11	0.636	1.589	0.20
47	470	5x11	0.539	1.348	0.22	6.3x11	0.510	1.275	0.27	
68	680	6.3x11	0.419	1.049	0.30	6.3x11	0.397	0.991	0.33	
100	101	6.3x11	0.349	0.871	0.36	8x11.5	0.330	0.824	0.49	
220	221	8x11.5	0.180	0.450	0.65	10x12.5	0.128	0.319	0.85	
330	331	10x12.5	0.108	0.270	0.94	10x16	0.102	0.255	1.15	
470	471	10x16	0.088	0.221	1.25	10x20	0.084	0.209	1.52	
680	681	10x20	0.070	0.175	1.65	12.5x20	0.066	0.165	2.07	
1000	102	12.5x20	0.057	0.143	2.27	12.5x25	0.054	0.135	2.77	
1200	122	12.5x20	0.050	0.124	2.49	12.5x30	0.047	0.117	3.29	
1500	152	12.5x25	0.042	0.105	2.94	16x25	0.040	0.079	3.32	
2200	222	16x25	0.032	0.065	3.42	16x31.5	0.031	0.077	3.49	
3300	332	16x31.5	0.027	0.054	3.66	18x35.5	0.026	0.064	4.17	
4700	472	18x35.5	0.023	0.046	4.23					

V(Code)		50 (1H)				63 (1J)				
μF	Code	φD	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
4.7	4R7		5x11	1.699	5.096	0.09	5x11	1.699	5.096	0.09
10	100		5x11	1.331	3.992	0.13	5x11	1.331	3.992	0.13
22	220		5x11	0.726	2.177	0.19	6.3x11	0.726	1.814	0.22
33	330		6.3x11	0.564	1.411	0.26	6.3x15	0.564	1.411	0.30
47	470		6.3x11	0.453	1.132	0.31	8x11.5	0.453	1.132	0.38
68	680		8x11.5	0.352	0.880	0.46	10x12.5	0.264	0.660	0.54
100	101		8x20	0.220	0.549	0.71	10x16	0.220	0.549	0.73
220	221		10x16	0.113	0.283	1.09	10x25	0.113	0.283	1.33
330	331		10x20	0.091	0.227	1.47	12.5x20	0.091	0.227	1.66
470	471		12.5x20	0.074	0.186	1.99	12.5x25	0.074	0.186	2.19
680	681		12.5x25	0.059	0.147	2.63	16x25	0.059	0.117	2.63
1000	102		16x25	0.048	0.096	3.19	16x35.5	0.048	0.096	3.17
1200	122		16x31.5	0.042	0.083	3.29	18x35.5	0.042	0.083	3.48
1500	152		16x35.5	0.035	0.071	3.44	18x40	0.035	0.071	3.87
2200	222		18x35.5	0.027	0.055	4.20				
3300	332		18x40	0.023	0.046	4.97				