

RADIAL TYPE

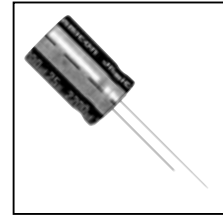
TB

Series

Long Life, Low Impedance, High Reliability



- Low impedance and long life withstanding 10000 hours load life
- Suitable for electronic ballast, adaptor and switching power



SPECIFICATION

Item	Characteristic										
Operation Temperature Range	-40 ~ +105°C										
Rated Working Voltage	6.3 ~ 100VDC										
Capacitance Tolerance (120Hz 20°C)	±20%(M)										
Leakage Current (20°C)	I ≤ 0.01CV or 3 μA					I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)					
	*Whichever is greater after 3 minutes										
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	63	100		
	S.V.	8	13	20	32	44	63	79	125		
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	100		
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08		
Low Temperature Stability	Impedance ratio at 120Hz										
	Rated Voltage (V)	6.3		10		16		25~100			
	-25°C / +20°C	4		3		2		2			
	-40°C / +20°C	8		6		4		3			
Load Life	After application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage)										
	Rated Voltage (V)	6.3~10				16~100					
	Life Time	φD≤6.3mm 4000 hours		φD8-10mm 6000 hours		φD≥12.5mm 8000 hours		φD≤6.3mm 5000 hours		φD8-10mm 7000 hours φD≥12.5mm 10000 hours	
	Capacitance Change	≤ ±25% 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 limits for load life characteristics. (with voltage treatment)										

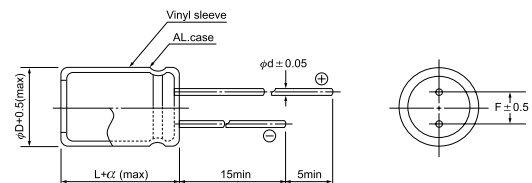
DIMENSIONS (mm)

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	85	105
Multiplier	2.12	1.69	1.00

Coefficient	Frequency(Hz)	120	1k	10k	≥100k
	0.47~10 μF	0.42	0.60	0.80	1.00
22~33 μF	0.55	0.75	0.90	1.00	
47~330 μF	0.70	0.85	0.95	1.00	
470~1000 μF	0.75	0.90	0.98	1.00	
2200~15000 μF	0.80	0.95	1.00	1.00	



7170 N. Ridgeway
Lincolnwood, IL 60712
Ph: 847-675-1865
Fax: 847-675-3345
Email: sales@icd-sales.com
Website: www.icd-sales.com

● CASE SIZE & MAX RIPPLE CURRENT

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

μF	V(Code)		6.3 (0J)				10 (1A)				16 (1C)			
	Code	Item	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	1.703	150
100		101	5x11	0.595	1.784	200	5x11	0.482	1.446	210	6.3x11	0.367	1.101	250
220		221	6.3x11	0.307	0.922	340	6.3x11	0.249	0.747	350	8x11.5	0.190	0.569	430
330		331	6.3x11	0.246	0.737	410	8x11.5	0.169	0.507	500	8x11.5	0.152	0.455	520
470		471	8x11.5	0.178	0.534	540	8x11.5	0.138	0.415	560	10x12.5	0.093	0.279	690
1000		102	10x12.5	0.066	0.199	920	10x16	0.063	0.189	1070	10x20	0.060	0.180	1230
2200		222	12.5x20	0.038	0.113	1660	12.5x20	0.036	0.108	1720	12.5x25	0.034	0.103	1960
3300		332	12.5x20	0.032	0.095	1910	12.5x25	0.030	0.090	2170	16x25	0.029	0.086	2570
4700		472	16x25	0.027	0.080	2660	16x25	0.025	0.076	2730	16x31.5	0.024	0.073	3100
6800		682	16x25	0.024	0.071	2920	16x31.5	0.023	0.068	3300	18x35.5	0.022	0.065	3800
10000		103	16x31.5	0.021	0.064	3450	18x35.5	0.020	0.061	3940				
15000		153	18x35.5	0.020	0.061	4130								

μF	V(Code)		25 (1E)				35 (1V)				50 (1H)			
	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C			20°C	-10°C	
0.47		R47									5x11	5.658	16.973	25
1		010									5x11	3.989	11.966	36
2.2		2R2									5x11	2.417	7.252	55
3.3		3R3									5x11	2.014	6.043	65
4.7		4R7									5x11	1.697	5.092	80
10		100									5x11	1.330	3.989	110
22		220									5x11	0.725	2.176	140
33		330	5x11	0.672	2.015	150	5x11	0.635	1.905	160	6.3x11	0.564	1.692	200
47		470	5x11	0.539	1.616	170	6.3x11	0.510	1.529	210	6.3x11	0.453	1.358	230
100		101	6.3x11	0.348	1.045	280	8x11.5	0.329	0.988	370	8x14	0.292	0.877	420
220		221	8x11.5	0.180	0.540	480	10x12.5	0.128	0.383	640	10x16	0.113	0.340	760
330		331	10x12.5	0.108	0.324	700	10x16	0.102	0.306	870	10x20	0.091	0.272	1020
470		471	10x16	0.088	0.265	860	10x20	0.084	0.251	1070	12.5x20	0.074	0.223	1290
1000		102	12.5x20	0.057	0.171	1580	12.5x25	0.054	0.162	1940	16x25	0.048	0.144	2390
2200		222	16x25	0.032	0.097	2540	16x31.5	0.031	0.092	3070	18x35.5	0.027	0.082	3650
3300		332	16x31.5	0.027	0.081	3180	18x35.5	0.026	0.077	3870				
4700		472	18x35.5	0.023	0.069	3880								

μF	V(Code)		63 (1J)				100 (2A)			
	Code	Item	DxL	IMP.		R.C.	DxL	IMP.		R.C.
				20°C	-10°C			20°C	-10°C	
0.47		R47					5x11	5.301	15.902	26
1		010					5x11	3.737	11.211	37
2.2		2R2					5x11	2.265	6.794	55
3.3		3R3					5x11	1.887	5.662	65
4.7		4R7					5x11	1.590	4.771	80
10		100	5x11	1.246	3.737	120	6.3x11	1.246	3.737	130
22		220	6.3x11	0.679	2.038	180	8x11.5	0.679	2.038	190
33		330	8x11.5	0.528	1.585	250	10x12.5	0.317	0.951	270
47		470	8x11.5	0.424	1.272	280	10x16	0.254	0.763	350
100		101	10x16	0.192	0.575	530	12.5x20	0.164	0.493	640
220		221	10x25	0.099	0.297	960	16x25	0.085	0.255	1200
330		331	12.5x25	0.079	0.238	1330	16x25	0.068	0.204	1470
470		471	12.5x30	0.065	0.195	1610				
1000		102	16x35.5	0.042	0.126	2900				