

RT series

Features

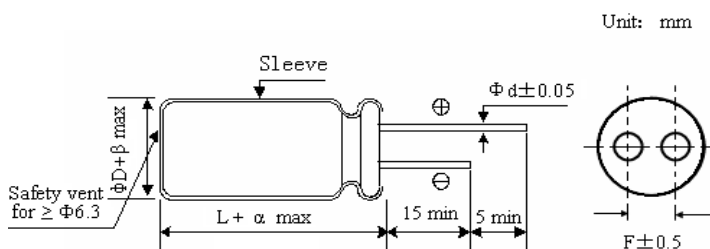
- ◆ High ripple current ,Long life 6000 hours at 105°C.
- ◆ Especially designed for LED driver, LED lighting .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics							
Temperature Range	-40~+105°C (160~400Vdc) -25~+105°C (450~500Vdc)							
Rated Voltage Range	160~500Vdc							
Capacitance Range	1.5~150µF							
Capacitance Tolerance	±20% (120Hz, +20°C)							
Leakage Current (+20°C,max.)	I≤0.02CV+30 (µA) After 2 minutes, whichever is greater measured with rated working voltage applied							
Dissipation Factor (tgδ) 120Hz, +20°C	Working Voltage(Vdc)	160	200	250	350	400	450	500
	D.F.(%)max.	15	15	15	20	20	20	24
For capacitance>1000µF , Add 2% per another 1000µF (120Hz, +20°C)								
Low Temperature Characteristics(120Hz)	Impedance ratio max.							
	Working Voltage(Vdc)	160	200	250	350	400	450	500
	Z-25°C/ Z+20°C	3	3	3	5	5	6	6
Z-40°C/ Z+20°C	6	6	6	6	6	-	-	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 6000 hours at 105°C							
	Capacitance Change	≤±20% of the initial value						
	D.F.(tgδ)	≤200% of the initial specified value						
	Leakage Current	≤The initial specified value						
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C.							
	Capacitance Change	≤±20% of the initial value						
	D.F.(tgδ)	≤200% of the initial specified value						
	Leakage Current	≤200% The initial specified value						
Others	JISC-5101 (IEC 60384-4)							

Diagram of Dimensions



Frequency Multipliers

WV \ Hz	120	1K	10K	100K
160~250	0.55	0.85	0.90	1.00
350~500	0.50	0.80	0.90	1.00

ΦD	8	10	13	16	18
F	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.6	0.6	0.8	0.8
α	(L < 20) + 1.5		(L ≥ 20) + 2.0		
β	(D < 20) + 0.5		(D ≥ 20) + 1.0		

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Standard Ratings

Voltage	160		200		250		
	Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
4.7					8×12	102	
5.6			8×12	98	8×12	105	
6.8	8×12		96	8×12	103	8×16	115
8.2	8×12		150	8×16	155	8×16	120
10	8×16		206	8×16	189	8×16	200
15	8×16		225	10×17	213	10×17	280
22	10×17		300	10×17	360	10×20	380
33	10×20		400	13×20	450	13×20	535
47	10×17		417	13×20	580	13×25	627
	13×20		520				
68	13×17		615	13×25	665	16×25	720
	13×20		660				
100	13×25		704	13×25	676	16×30	840
	16×20		720	16×25	760		
150	16×25		800	16×30	895	16×35	980

Voltage	350		400		450		
	Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1.5					8×12	70	
2.2				8×12	78	8×12	75
3.3	8×12		72	8×16	95	10×13	86
4.7	8×12		85	8×16	110	10×17	99
5.6	8×16		103	10×17	138	10×17	115
6.8	10×17		128	10×17	148	10×20	158
8.2	10×17		144	10×17	218	10×20	209
10	10×17		207	10×20	226	13×20	215
15	10×20		285	13×20	300	13×25	300
22	13×20		380	13×25	380	16×20	400
33	13×25		480	16×25	550	16×25	522
47	16×20		550	16×30	637	16×35	700
68	18×25		700	18×30	760	18×35	769
100	18×30		900	18×40	1000	18×40	950

Voltage	500	
	Cap(μF)	Ripple Current
10	13×20	210
15	13×25	280
22	16×25	360
33	18×25	500
47	18×30	680
68	22×30	800
100	22×35	1000

Max Allowable Ripple Current (mA,rms) at 105°C 100KHz,Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.