

RD Series

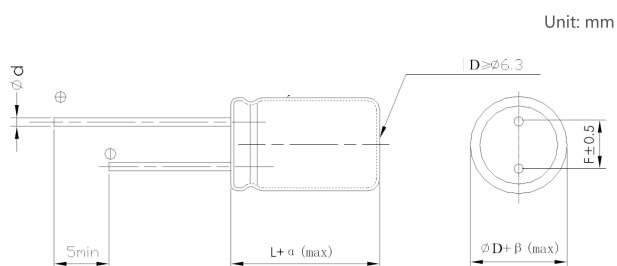


- High Ripple Current High Temperature , extremely Long Life, Life time 105°C 10000 hours
- Specially designed for electronic ballast and energy-save lamp
- Adapted to the ROHS directive

Specifications

Items	Characteristics												
Operating Temperature Range	-40°C ~ +105°C												
Rated Voltage Range	200V ~ 450V												
Nominal Capacitance Range	1μF ~ 100μF												
Capacitance Tolerance	± 20% (120Hz, +20°C)												
Leakage Current	$I \leq 0.02 CV + 10\mu A$ (at 20°C ,after 2 minutes) C: Capacitance (μF) ; V: Rated voltage range (V)												
(tgδ) Dissipation Factor (+20°C, 120Hz)	<table border="1"> <thead> <tr> <th>U_r (V)</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tgδ</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> </tr> </tbody> </table>	U_r (V)	200	250	350	400	450	tgδ	0.15	0.15	0.20	0.20	0.20
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tgδ	0.15	0.15	0.20	0.20	0.20								
Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>U_r (V)</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>Z-40°C / Z+20°C</td> <td>6</td> <td>6</td> <td>7</td> <td>7</td> <td>9</td> </tr> </tbody> </table>	U_r (V)	200	250	350	400	450	Z-40°C / Z+20°C	6	6	7	7	9
U_r (V)	200	250	350	400	450								
Z-40°C / Z+20°C	6	6	7	7	9								
Load Life	The following specifications shall be met when the capacitors are restored to +20°C for 16 hours after D.C. bias rated ripple current is applied at +105°C, the peak voltage shall not exceed the voltage. Time : 10000 Capacitance change : ±20% of the initial measured value Leakage current : ≤Initial specified value Dissipation factor : ≤2 times of the initial specified value												
Shelf Life	After storage for 1000 hours at +105°C and then resumed for 16 hours: Capacitance change : ±20% of the initial measured value Leakage current : ≤2 times of the initial specified value Dissipation factor : ≤2 times of the initial specified value												

Case Size Table



D	6.3	8	10	12.5	16	18
F	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
αMAX	L < 20 > 1.5		βMAX			
	L ≥ 20 > 2.0					
						0.5

Coefficient of Allowable Ripple Current

Frequency (Hz)	50	120	1K	10K	100K
Coefficient	0.40	0.50	0.80	0.90	1.00

Dimensions

CR(μF)	Code	UR	200V(2D)		250V(2E)		350V(2V)		400V(2G)		450V(2W)	
			Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
			φD×L(mm)	(mA)	φD×L(mm)	(mA)	φD×L(mm)	(mA)	φD×L(mm)	(mA)	φD×L(mm)	(mA)
1	010		6.3×11	55	6.3×11	55	6.3×11	60	6.3×11	70	8×11.5	80
									8×11.5	75		
1.2	1R2		6.3×11	58	6.3×11	58	6.3×11	65	6.3×11	75	8×11.5	83
									8×11.5	75		
1.5	1R5		6.3×11	65	6.3×11	65	6.3×11	90	6.3×11	75	8×11.5	85
									8×11.5	80		
1.8	1R8		6.3×11	75	6.3×11	75	6.3×11	93	8×11.5	90	8×11.5	90
2.2	2R2		6.3×11	80	6.3×11	80	6.3×15	95	6.3×15	90	8×16	95
									8×11.5	100		
2.7	2R7		6.3×11	85	6.3×11	85	8×11.5	100	8×11.5	105	8×16	100
									8×16	113		
3.3	3R3		6.3×15	90	6.3×15	90	8×11.5	110	8×16	115	8×16	110
					8×11.5	90						
3.9	3R9		6.3×15	95	6.3×15	95	8×16	115	8×16	120		
4.7	4R7		6.3×15	100	8×11.5	115	8×16	130	8×16	135	10×16	130
			8×11.5	115			10×12.5	130	8×20	150		
5.6	5R6		6.3×15	120	8×11.5	125	8×20	160	10×16	160	10×20	170
			8×11.5	125					8×20	160		
6.8	6R8		8×11.5	140	8×16	155	10×16	250	10×16	190	10×20	210
			8×16	155								
8.2	8R2		8×16	165	8×16	165	10×16	275	10×20	230	10×20	230
10	100		8×16	260	8×20	260	10×20	285	10×20	290	10×25	315
			10×12.5	270					10×25	300		
15	150		10×16	410	10×16	410	12.5×20	450	12.5×20	375	12.5×20	410
18	180		10×20	430	10×20	430	12.5×20	480	16×20	420	16×20	480
22	220		10×20	530	10×25	530	16×20	650	12.5×25	430	16×25	530
									16×20	500		
33	330		12.5×20	580	12.5×25	580	16×25	850	16×25	590	16×30	660
47	470		12.5×25	660	16×20	660	18×25	1080	16×30	750	18×30	850
									18×25	810		
68	680		16×25	830	16×30	830	18×30	1170	18×30	900		
82	820		18×25	980	18×25	980						
100	101		18×30	1100	18×30	1100						

• Rated ripple current (mA, +105°C, 100KHz)