

RG series

Features

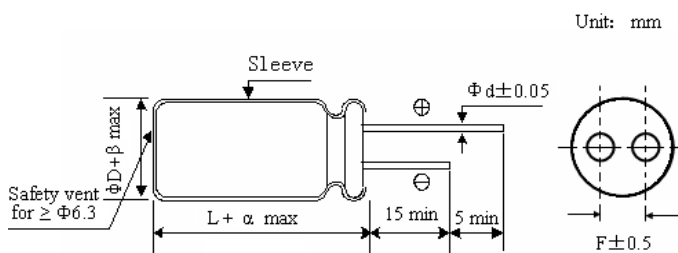
- ◆ High ripple Current, Super longer life 15,000 hours at 105°C.
- ◆ Especially designed for LED driver, LED lighting .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics																								
Temperature Range	-40~+105°C (160~400Vdc) -25~+105°C (450~500Vdc)																								
Rated Voltage Range	160~500Vdc																								
Capacitance Range	2.2~330µF																								
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	<table border="1"> <tr> <td>Working Voltage(Vdc)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> <td>500</td> </tr> <tr> <td>D.F.(%)max.</td> <td>15</td> <td>15</td> <td>15</td> <td>20</td> <td>20</td> <td>20</td> <td>24</td> </tr> </table>	Working Voltage(Vdc)	160	200	250	350	400	450	500	D.F.(%)max.	15	15	15	20	20	20	24								
	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.																								
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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	After application of DC voltage with the rated Ripple Current at 105°C 15,000hours (WV:500V for 12,000 hours), the capacitor shall meet the requirement below																								
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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.																								
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Others	JISC-5101(IEC 60384)																								

Diagram of Dimensions



Frequency Multipliers

WV	Hz	120	1K	10K	100K
	160~500		0.50	0.80	0.90

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
3.3					8×12	80
4.7	8×12	80	8×12	80	8×12	90
6.8	8×12	100	8×16	100	10×13	130
10	8×16	140	10×17	140	10×17	170
22	10×20	250	10×20	250	13×20	320
33	13×20	360	13×20	360	13×25	440
47	13×20	430	13×25	470	16×20	530
68	13×25	570	16×20	580	16×25	700
100	16×25	780	16×25	780	16×30	920
120	16×25	850	16×30	920	18×30	1080
150	16×30	1030	18×30	1100	18×40	1370
220	18×30	1330	18×40	1520		
330	18×40	1860				

Voltage	350		400		450	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2.2			8×12	70	8×12	60
3.3	8×12	80	8×16	90	8×16	90
4.7	8×16	110	10×17	130	10×17	120
6.8	10×17	160	10×17	160	10×20	160
10	10×20	210	10×20	210	13×20	220
22	13×20	350	13×25	390	16×20	370
33	16×20	490	16×25	540	16×25	490
47	16×25	640	16×30	700	18×30	680
68	18×25	830	18×30	890	18×40	930
100	18×30	1080	18×40	1230		
120	18×40	1350				

Voltage	500	
Cap(μF)	Case Size	Ripple Current
10	13×20	200
15	13×25	270
22	16×20	340
33	18×25	490
47	18×30	630
68	18×40	860

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.