

RH series

Features

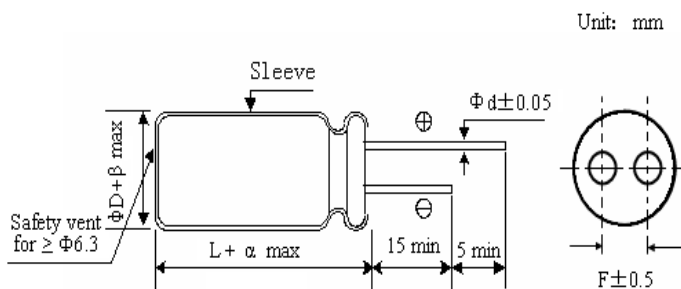
- ◆ High ripple current, Super longer life 12,000 hours at 105°C , 3000 hours at 130°C.
- ◆ Especially designed for LED driver, LED lighting .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics																								
Temperature Range	-40~+105°C (160~400Vdc) -25~+105°C (450~500Vdc)																								
Rated Voltage Range	160~500Vdc																								
Capacitance Range	1.0~220µF																								
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								
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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 the rated DC voltage at 130°C 3000 hours or application of DC voltage with the rated Ripple Current at 105°C 12,000hours (WV:500V for 10,000 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	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		

RH series**Standard Ratings**

Voltage	160		200		250	
Cap(Mf)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
4.7	8×12	96	8×12	100	8×12	100
5.6	8×12	102	8×12	108	8×12	108
6.8	8×12	110	8×16	118	8×16	118
8.2	8×16	160	8×16	160	10×17	180
10	8×16	210	10×17	250	10×17	265
15	10×17	320	10×17	358	10×20	380
22	10×17	450	10×20	500	10×20	525
33	10×20	525	13×20	600	13×20	610
47	13×20	660	13×20	660	13×25	720
68	13×25	760	16×20	800	16×25	850
100	16×25	1120	16×25	1180	16×30	1260
150	16×30	1360	16×30	1430	16×35	1500
220	18×25	1620				

Voltage	350		400		450	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1.0					8×12	62
1.5			8×12	70	8×12	76
2.2	8×12	88	8×12	92	8×16	95
3.3	8×12	102	8×16	105	8×16	110
4.7	8×16	118	10×17	120	10×17	130
5.6	8×16	135	10×17	150	10×20	170
6.8	10×17	162	10×17	170	10×20	188
8.2	10×17	206	10×20	210	10×20	230
10	10×20	258	10×20	258	13×20	264
15	13×20	380	13×20	380	13×20	380
22	13×20	460	16×20	500	16×20	520
33	16×20	600	16×25	620	16×25	650
47	16×25	760	16×30	780	16×35	800
68	18×25	850	18×30	1000	18×35	1050
100	18×30	1300	18×40	1320	18×45	1400

Voltage	500	
Cap(μF)	Case Size	Ripple Current
10	13×25	256
15	16×20	350
22	16×25	440
33	18×25	560
47	18×30	760

Max Allowable Ripple Current (mA,rms) at 105℃ 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.