

RH 系列 SERIES



High temperature
RD P14

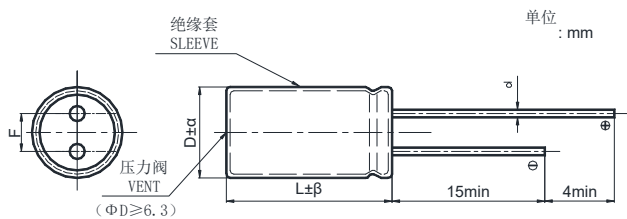
- 高温度
High temperature
- 保证 125℃、1000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 1000 hours at 125℃
- 额定工作电压范围: 10V~50V
Rated voltage range: 10V-50V

◆ 规格表 SPECIFICATIONS

项目 Items	特性 Characteristics																		
工作温度范围 Operating Temperature Range	-40~+125℃																		
额定工作电压范围 Rated Working Voltage Range	10~50V																		
静电容量允许偏差 Capacitance Tolerance	±20% (20℃, 120Hz)																		
损耗角正切值 Dissipation Factor (MAX) 20℃, 120Hz	当容量大于 1000µF 时, 容量每增加 1000µF, tgδ 增加 0.02。 When nominal capacitance over 1000µF, tgδ shall be added 0.02 to below listed value for each 1000µF increase.																		
	<table border="1"> <tr> <td>U_R(V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tanδ</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </table>	U _R (V)	10	16	25	35	50	tanδ	0.22	0.18	0.16	0.14	0.12						
U _R (V)	10	16	25	35	50														
tanδ	0.22	0.18	0.16	0.14	0.12														
阻抗比 Impedance Ratio (MAX) 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z_{-25℃}/Z_{+20℃}</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z_{-40℃}/Z_{+20℃}</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	U _R (V)	10	16	25	35	50	Z _{-25℃} /Z _{+20℃}	3	2	2	2	2	Z _{-40℃} /Z _{+20℃}	6	4	4	3	3
U _R (V)	10	16	25	35	50														
Z _{-25℃} /Z _{+20℃}	3	2	2	2	2														
Z _{-40℃} /Z _{+20℃}	6	4	4	3	3														
漏电流 Leakage Current (MAX)	I=0.01C _R U _R 或 3µA 取大者 (20℃, 施加额定电压 2 分钟后) I=0.01C _R U _R or 3µA whichever is greater. (at 20℃, After 2 minutes application of rated voltage) I=漏电流 (µA) U _R =额定电压 (V) C _R =静电容量 (µF) Leakage Current Rated Voltage Rated Capacitance																		

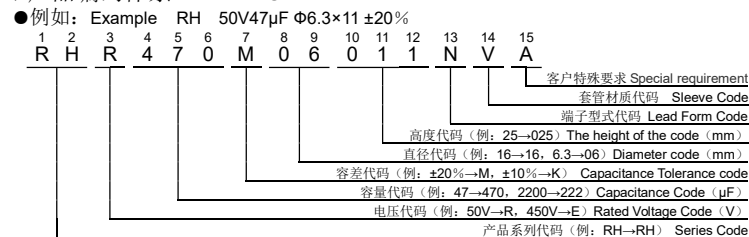
	使用寿命 Useful Life	负荷寿命 Load Life	耐久性特性 Endurance Test	高温无负荷特性 Shelf Life
产品寿命 Life Time	2000h >200000h	1000h	1000h	1000h
漏电流 Leakage Current	≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value
损耗角正切值变化率 Tgδ Change	≤规定值的 500% ≤500% of specified value	≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value
静电容量变化率 Capacitance Change	初始值±50%以内 Within±50% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value
施加条件 Condition 施加电压 Applied Voltage 施加纹波电流 Applied Ripple Current 环境温度 Applied Temperature 失效等级 Failure Rate Level	U _R I _R 125℃ ≤1% Failure rate	U _R 1.4×I _R 40℃ ≤1% Failure rate	U _R I _R 125℃ 0%	U _R I _R 125℃ 0%
				Back up to 20℃ and placed more than 24 hours. U _R to be applied for 60 min before measurement.

◆ 尺寸图 Dimensions



D	5	6.3	8	10	13	16	18
F±0.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d±0.05	0.5		0.6		0.8		
β	L≤16: β=1.5			L≥20: β=2.0			
α	0.5						

◆ 产品编码体系 PART NUMBER SYSTEM



◆ 纹波电流修正系数 Rated Ripple Current Multiplies

容量范围 (µF) Capacitance (µF)	频率 (Hz) Frequency				
	50 (60)	100 (120)	300	1K	≥10k
≤47	0.75	1.0	1.35	1.57	2.0
56~470	0.8	1.0	1.25	1.34	1.5

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◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	$\tan\delta$ 20°C 120Hz	Ripple Current 125°C 120Hz (mA _{rms})	Catalog Part Number
10 (13)	100	5×11	0.22	74	RHW101M05011□VA
	220	6.3×11	0.22	135	RHW221M06011□VA
	330	6.3×11	0.22	167	RHW331M06011□VA
	470	8×12	0.22	237	RHW471M08012□VA
16 (20)	47	5×11	0.18	56	RHV470M05011□VA
	100	5×11	0.18	88	RHV101M05011□VA
	220	6.3×11	0.18	149	RHV221M06011□VA
	330	8×12	0.18	221	RHV331M08012□VA
25 (32)	470	8×12	0.18	256	RHV471M08012□VA
	33	5×11	0.16	53	RHU330M05011□VA
	47	5×11	0.16	59	RHU470M05011□VA
	100	6.3×11	0.16	111	RHU101M06011□VA
	220	8×12	0.16	200	RHU221M08012□VA
	330	8×12	0.16	238	RHU331M08012□VA
	470	10×16	0.16	366	RHU471M10016□VA
	1000	10×20	0.16	576	RHU102M10020□VA
	2200	13×25	0.18	908	RHU222M13025□VA
3900	16×30	0.20	1356	RHU392M16030□VA	

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	$\tan\delta$ 20°C 120Hz	Ripple Current 125°C 120Hz (mA _{rms})	Catalog Part Number
35 (44)	22	5×11	0.14	47	RHT220M05011□VA
	33	5×11	0.14	56	RHT330M05011□VA
	47	6.3×11	0.14	84	RHT470M06011□VA
	100	6.3×11	0.14	118	RHT101M06011□VA
	220	10×13	0.14	240	RHT221M10013□VA
50 (63)	1	5×11	0.12	9	RHR010M05011□VA
	2.2	5×11	0.12	14	RHR2R2M05011□VA
	3.3	5×11	0.12	21	RHR3R3M05011□VA
	4.7	5×11	0.12	26	RHR4R7M05011□VA
	10	5×11	0.12	38	RHR100M05011□VA
	22	5×11	0.12	55	RHR220M05011□VA
	33	6.3×11	0.12	81	RHR330M06011□VA
	47	6.3×11	0.12	93	RHR470M06011□VA
100	8×12	0.12	160	RHR101M08012□VA	

*产品编码中□内为产品端子引出型式代码

*□Enter the appropriate terminal code

*记载之外的体积，请另行咨询。

* Please ask for advice for other sizes.

*铝电解电容器由于承受纹波电流而发热，随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。

*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.