

RF 系列 SERIES

Slim type

RoHS

- 细长型
Slim Type
- 保证 105℃、2000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 2000 hours at 105℃
- 额定工作电压范围: 400V~450V
Rated voltage range: 400V-450V

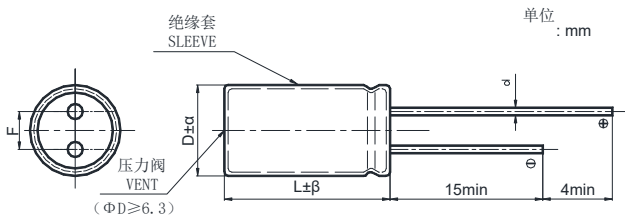


规格表 SPECIFICATIONS

项目 Items	特性 Characteristics								
工作温度范围 Operating Temperature Range	-25~+105℃								
额定工作电压范围 Rated Working Voltage Range	400~450V								
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.								
阻抗比 Impedance Ratio (MAX) 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>400</td> <td>420</td> <td>450</td> </tr> <tr> <td>tanδ</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> </tr> </table>	U _R (V)	400	420	450	tanδ	0.24	0.24	0.24
	U _R (V)	400	420	450					
tanδ	0.24	0.24	0.24						
	<table border="1"> <tr> <td>U_R(V)</td> <td>400</td> <td>420</td> <td>450</td> </tr> <tr> <td>Z_{-25℃}/Z_{+20℃}</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>	U _R (V)	400	420	450	Z _{-25℃} /Z _{+20℃}	6	6	6
U _R (V)	400	420	450						
Z _{-25℃} /Z _{+20℃}	6	6	6						
漏电流 Leakage Current (MAX)	I=0.03C _R U _R +40μA (20℃, 施加额定电压 2 分钟后) I=0.03C _R U _R +40μA (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								

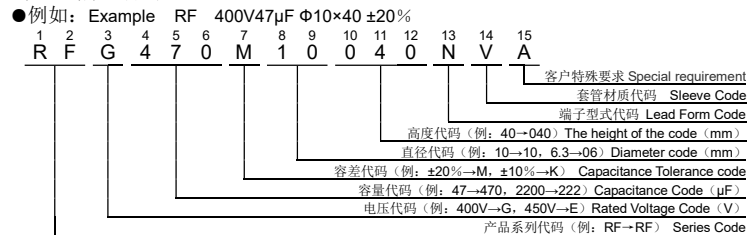
	使用寿命 Useful Life		负荷寿命 Load Life	耐久性特性 Endurance Test	高温无负荷特性 Shelf Life
产品寿命 Life Time	3000h	>70000h	2000h	2000h	1000h
漏电流 Leakage Current	≤规定值 ≤Specified value		≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value
损耗角正切值变化率 Tgδ Change	≤规定值的 500% ≤500% of specified value		≤规定值的 200% ≤200% 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 105℃ ≤1% Failure rate	U _R 1.4×I _R 40℃ ≤1% Failure rate	U _R I _R 105℃ 0%	U _R I _R =0 105℃ 0%	U _R =0 I _R =0 105℃ 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



	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
≤270	0.80	1.00	1.25	1.45	1.50

◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	Ripple Current 105°C 120Hz (mA _{rms})	Catalog Part Number
400 (450)	27	10×30	0.24	300	RFG270M10030□VA
	33	10×30	0.24	330	RFG330M10030□VA
	39	10×35	0.24	370	RFG390M10035□VA
	47	10×40	0.24	430	RFG470M10040□VA
	56	10×45	0.24	480	RFG560M10045□VA
	56	13×30	0.24	470	RFG560M13030□VA
	68	10×50	0.24	520	RFG680M10050□VA
	68	13×35	0.24	540	RFG680M13035□VA
	82	13×40	0.24	620	RFG820M13040□VA
	100	13×50	0.24	730	RFG101M13050□VA
	120	16×35	0.24	800	RFG121M16035□VA
	150	16×40	0.24	920	RFG151M16040□VA
	180	16×50	0.24	1080	RFG181M16050□VA
	180	18×40	0.24	1060	RFG181M18040□VA
220	18×45	0.24	1200	RFG221M18045□VA	
420 (470)	27	10×30	0.24	300	RFF270M10030□VA
	33	10×30	0.24	330	RFF330M10030□VA
	39	10×35	0.24	370	RFF390M10035□VA
	47	10×40	0.24	430	RFF470M10040□VA
	56	10×50	0.24	480	RFF560M10050□VA
	56	13×30	0.24	470	RFF560M13030□VA
	68	13×35	0.24	540	RFF680M13035□VA

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	Ripple Current 105°C 120Hz (mA _{rms})	Catalog Part Number
420 (470)	82	13×45	0.24	630	RFF820M13045□VA
	100	13×50	0.24	710	RFF101M13050□VA
	120	16×35	0.24	780	RFF121M16035□VA
	150	16×45	0.24	940	RFF151M16045□VA
	150	18×35	0.24	920	RFF151M18035□VA
	180	16×50	0.24	1080	RFF181M16050□VA
	180	18×40	0.24	1060	RFF181M18040□VA
	220	18×50	0.24	1220	RFF221M18050□VA
	450 (500)	27	10×30	0.24	300
33		10×35	0.24	340	RFE330M10035□VA
39		10×40	0.24	390	RFE390M10040□VA
47		10×45	0.24	440	RFE470M10045□VA
56		13×35	0.24	490	RFE560M13035□VA
68		13×40	0.24	560	RFE680M13040□VA
82		13×45	0.24	630	RFE820M13045□VA
100		16×35	0.24	730	RFE101M16035□VA
120		16×40	0.24	820	RFE121M16040□VA
150		16×50	0.24	980	RFE151M16050□VA
150		18×40	0.24	970	RFE151M18040□VA
180		18×45	0.24	1090	RFE181M18045□VA
220	18×50	0.24	1220	RFE221M18050□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.