

RO 系列 SERIES

Long life

Slim type

RoHS

- 细长型长寿命品
Slim Type, Long Life
- 保证 105℃、10000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 10000 hours at 105℃
- 额定工作电压范围: 400V~450V
Rated voltage range: 400V-450V

RO

Long life
RF P43

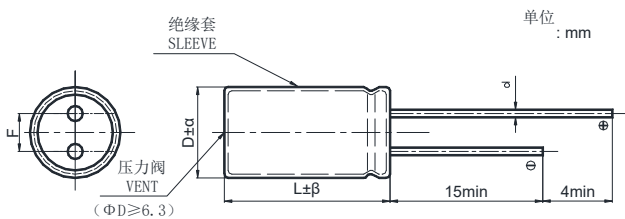


规格表 SPECIFICATIONS

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.								
	<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						
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>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=0.02C _R U _R +10μA (20℃, 施加额定电压 2 分钟后) I=0.02C _R U _R +10μA (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								

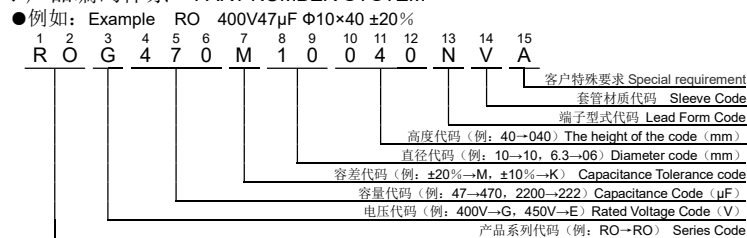
	使用寿命 Useful Life		负荷寿命 Load Life	耐久性特性 Endurance Test	高温无负荷特性 Sheff Life
产品寿命 Life Time	11000h	>200000h	10000h	10000h	1000h
漏电流 Leakage Current	≤规定值 ≤Specified value		≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value
损耗角正切值变化率 Tgδ Change	≤规定值的 500% ≤500% of specified value		≤规定值的 200% ≤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



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				
≤270	50 (60)	100 (120)	300	1K	≥10k
	0.80	1.00	1.25	1.45	1.50

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◆ 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	ROG270M10030□VA
	33	10×30	0.24	330	ROG330M10030□VA
	39	10×35	0.24	370	ROG390M10035□VA
	47	10×40	0.24	430	ROG470M10040□VA
	56	10×45	0.24	480	ROG560M10045□VA
	56	13×30	0.24	470	ROG560M13030□VA
	68	10×50	0.24	520	ROG680M10050□VA
	68	13×35	0.24	540	ROG680M13035□VA
	82	13×40	0.24	620	ROG820M13040□VA
	100	13×50	0.24	730	ROG101M13050□VA
	120	16×35	0.24	800	ROG121M16035□VA
	150	16×40	0.24	920	ROG151M16040□VA
	180	16×50	0.24	1080	ROG181M16050□VA
	180	18×40	0.24	1060	ROG181M18040□VA
420 (470)	220	18×45	0.24	1200	ROG221M18045□VA
	27	10×30	0.24	300	ROF270M10030□VA
	33	10×30	0.24	330	ROF330M10030□VA
	39	10×35	0.24	370	ROF390M10035□VA
	47	10×40	0.24	430	ROF470M10040□VA
	56	10×50	0.24	490	ROF560M10050□VA
	56	13×30	0.24	470	ROF560M13030□VA
	68	13×35	0.24	540	ROF680M13035□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	ROF820M13045□VA
	100	13×50	0.24	710	ROF101M13050□VA
	120	16×35	0.24	780	ROF121M16035□VA
	150	16×45	0.24	940	ROF151M16045□VA
	150	18×35	0.24	920	ROF151M18035□VA
	180	16×50	0.24	1080	ROF181M16050□VA
	180	18×40	0.24	1060	ROF181M18040□VA
	220	18×50	0.24	1220	ROF221M18050□VA
	450 (500)	27	10×30	0.24	300
33		10×35	0.24	340	ROE330M10035□VA
39		10×40	0.24	390	ROE390M10040□VA
47		10×45	0.24	440	ROE470M10045□VA
56		13×35	0.24	490	ROE560M13035□VA
68		13×40	0.24	560	ROE680M13040□VA
82		13×45	0.24	630	ROE820M13045□VA
100		16×35	0.24	730	ROE101M16035□VA
120		16×40	0.24	820	ROE121M16040□VA
150		16×50	0.24	980	ROE151M16050□VA
150		18×40	0.24	970	ROE151M18040□VA
180		18×45	0.24	1090	ROE181M18045□VA
220	18×50	0.24	1220	ROE221M18050□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.