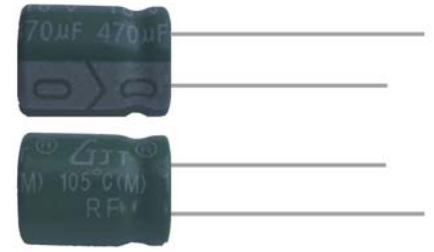


RF 105°C, 2000Hrs, Standard
105°C, 2000 小时标准品

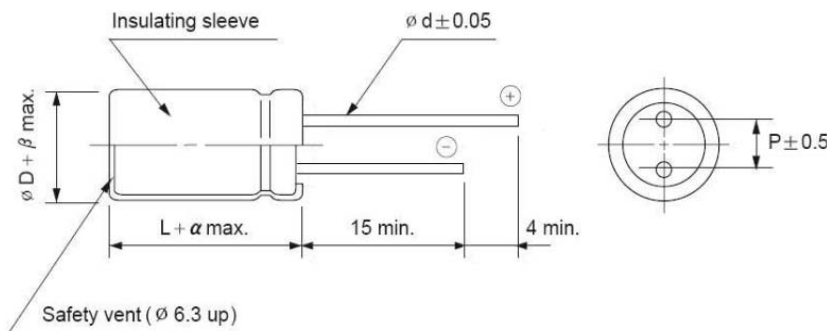


- 105°C, 2000 hours assured.
105°C, 2000 小时寿命品。
- This series is for communication equipments, switching power supply, industrial measuring Instruments, etc.
适用于通讯设备、开关电源、工业测试仪器等

■ Specifications 特性表

Items 项目	Characteristics 主要特性										
Rated Voltage Range 额定工作电压范围	6.3 ~ 100V _{dc}	160~450 V _{dc}									
Category Temperature Range 使用温度范围	-40 ~ +105°C										
Capacitance Tolerance 静容量允许偏差	±20% (M), at 20°C, 120Hz										
Leakage Current 漏电流, 20°C环境下施加工作电压 2 分钟后. (at 20°C, After 2 minutes)	I ≤ 0.01CV or 3uA, whichever is greater 漏电流 ≤ 0.01CV or 3uA, 取较大值	CV ≤ 1000, I ≤ 0.03CV + 15uA 漏电流 ≤ 0.03CV + 15uA CV > 1000, I ≤ 0.02CV + 25uA 漏电流 ≤ 0.02CV + 25uA									
Dissipation Factor (Tanδ, at 20°C, 120Hz) 损耗角正切值 (测试条件为 20°C, 120Hz)	Where, I : Max. leakage current (漏电流, µA), C : Nominal capacitance (静容量, µF), V : Rated voltage (额定电压 V)										
	Rated voltage (V) 额定工作电压	6.3	10	16	25	35	50	63	100	160~250	350~450
Low Temperature Characteristics (Max. Impedance Ratio, 120Hz) 低温特性最大阻抗比	Tanδ (Max.) 最大损耗角正切	0.24	0.20	0.17	0.15	0.12	0.10	0.09	0.08	0.15	0.20
	Rated voltage (V) 额定工作电压	6.3	10	16	25	35	50	63	100	160~250	350~450
	Z(-25°C)/Z(20°C)	8	6	4	4	3	3	3	3	4	8
Endurance 耐久性	The following specification shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the ripple current is applied for the specified period of time at 105°C. 在 105°C 环境中, 不超过额定电压的范围下叠加额定纹波电流, 连续加载规定时间的额定电压后, 待温度恢复到 20°C 进行测量时, 应满足以下要求。										
	Test Time 测试时间	2,000Hrs									
	Capacitance Change 静容量变化率	Within ±20% initial value 初始值的±20%以内									
	Dissipation Factor 损耗角正切	≤200% of specified value 不大于规范值的 200%									
Shelf Life 高温贮存	The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of IEC 60384-4. 在 105°C 环境中, 无负荷放置 1,000 小时后待温度恢复到 20°C, 进行试验前处理(IEC 60384-4 4.1 项)后进行测量时, 应满足以下要求。										
	Capacitance Change 静容量变化率	Within ±20% initial value 初始值的±20%以内									
	Dissipation Factor 损耗角正切值	≤200% of specified value 不大于规范值的 200%									
	Leakage Current 漏电流	≤The initial specified value 不大于规范值									

■ Drawing(Unit: mm) 外形图



ΦD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5		0.6		0.8		
α	1.0			1.5			
β	0.5						

■ Rated ripple current multipliers(Unit: mm) 额定纹波修正系数

Frequency 频率 (Hz)	60Hz	120Hz	300Hz	1KHz	10KHz~	
Coefficient 系数	Under 10 F	0.65	1.00	1.15	1.40	1.50
	10 < C ≤ 100	0.70	1.00	1.15	1.40	1.50
	100 < C ≤ 1000	0.75	1.00	1.18	1.30	1.35
	1,000 up above	0.80	1.00	1.05	1.12	0.15

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.
铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化, 每升温 5°C 寿命减少一半。
When long life performance is required in actual use, the rms ripple current has to be reduced.
要想保持长寿命请在使用过程中降低纹波电流。

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RF Series

Standard ratings 标准品一览表

WV μF	6.3		10		16		25		35		50		63		
	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	
0.1											5x11	1.3	5x11	1.3	
0.22											5x11	2.9	5x11	2.9	
0.33											5x11	4	5x11	4.5	
0.47											5x11	7	5x11	7	
1											5x11	13	5x11	13	
2.2											5x11	20	5x11	20	
3.3											5x11	26	5x11	28	
4.7								5x11	26	5x11	28	5x11	32	5x11	32
6.8								5x11	32	5x11	36	5x11	40	5x11	40
10					5x11	35	5x11	38	5x11	46	5x11	48	5x11	48	
22			5x11	45	5x11	54	5x11	58	5x11	61	6.3x11	70	6.3x11	82	
33	5x11	54	5x11	60	5x11	64	5x11	69	5x11	75	6.3x11	90	6.3x11	100	
47	5x11	65	5x11	70	5x11	100	5x11	105	5x11	110	6.3x11	115	8x11.5	140	
68	5x11	75	5x11	80	5x11	105	6.3x11	120	6.3x11	140	8x11.5	155	10x12.5	185	
100	5x11	96	5x11	105	5x11	115	6.3x11	145	6.3x11	160	8x11.5	200	10x12.5	230	
120	5x11	110	5x11	120	6.3x11	155	6.3x11	175	8x11.5	185	10x12.5	225	10x16	255	
150	5x11	120	6.3x11	145	6.3x11	170	8x11.5	200	8x11.5	215	10x12.5	245	10x16	270	
180	6.3x11	140	6.3x11	160	6.3x11	190	8x11.5	210	10x12.5	265	10x16	280	10x16	310	
220	6.3x11	160	6.3x11	175	6.3x11	215	8x11.5	235	10x12.5	300	10x12.5	345	10x16	375	
330	6.3x11	195	8x11.5	255	8x11.5	265	10x12.5	335	10x12.5	400	10x16	450	13x20	580	
470	8x11.5	270	8x11.5	290	8x11.5	370	10x12.5	440	10x16	520	10x20	600	13x20	690	
560	8x11.5	310	8x11.5	330	10x12.5	410	10x16	460	10x20	540	13x20	660	13x25	770	
680	8x11.5	360	10x12.5	420	10x12.5	480	10x16	520	13x20	650	13x25	770	16x25	880	
820	8x11.5	390	10x12.5	480	10x16	550	10x20	640	13x20	760	13x25	850	16x25	920	
1000	10x12.5	430	10x12.5	520	10x16	600	10x20	710	13x20	830	16x25	1000	16x31.5	1185	
1200	10x12.5	550	10x16	630	10x20	700	13x20	810	13x25	930	16x25	1150	16x35.5	1200	
1500	10x16	625	10x16	770	10x20	820	13x20	900	13x25	960	16x31.5	1300	18x31.5	1350	
1800	10x16	710	10x20	820	13x20	920	13x20	1050	16x25	1150	16x35.5	1480			
2200	10x16	750	10x20	860	13x20	1000	13x25	1200	16x31.5	1350	16x35.5	1530			
2700	10x20	850	13x20	920	13x20	1080	16x25	1320	16x31.5	1480	18x35.5	1590			
3300	13x20	960	13x20	1100	13x25	1200	16x25	1460	16x35.5	1650	18x35.5	1750			
3900	13x20	1000	13x20	1280	16x25	1490	16x31.5	1670	18x31.5	1820					
4700	13x20	1150	13x25	1350	16x25	1600	16x35.5	1780	18x35.5	1900					
5600	13x25	1300	16x25	1490	16x31.5	1720	16x35.5	1890	18x35.5	2000					
6800	13x25	1480	16x25	1670	16x31.5	1900	18x35.5	2050							
8200	16x25	1520	16x31.5	1840	16x35.5	2020	18x35.5	2090							
10000	16x25	1680	16x35.5	1900	18x35.5	2060									
12000	16x31.5	1750	16x35.5	2050	18x35.5	2150									
15000	16x35.5	2075	18x35.5	2180											
18000	18x31.5	2150	18x35.5	2205											
22000	18x40	2300													

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105°C, 120Hz. 尺寸 ΦD x L(mm), 纹波电流於 105°C, 120Hz

Note2: Produce custom product too, which are not found in these tables. 客户定制品不在标准品一览表内

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RF Series

■ Standard ratings 标准品一览表

WV μF	100		160		200		250		350		400		450	
	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.
0.1	5x11	1.9												
0.22	5x11	3.4												
0.33	5x11	5												
0.47	5x11	10	5x11	11	5x11	12	5x11	8	6.3x11	13	6.3x11	14	6.3x11	14
1	5x11	15	5x11	17	6.3x11	17	6.3x11	16	6.3x11	16	6.3x11	17	8x11.5	20
2.2	5x11	21	6.3x11	25	6.3x11	25	8x11.5	25	8x11.5	31	8x11.5	35	10x12.5	35
3.3	5x11	30	6.3x11	32	6.3x11	33	8x11.5	33	8x11.5	34	8x11.5	36	10x12.5	38
4.7	5x11	35	6.3x11	38	8x11.5	50	8x11.5	46	8x11.5	47	10x12.5	55	10x16	42
6.8	6.3x11	47	8x11.5	56	8x11.5	60	10x12.5	70	10x12.5	79	10x16	90	10x20	72
10	6.3x11	56	8x11.5	64	8x11.5	78	10x12.5	80	10x16	87	10x16	110	10x20	92
22	8x11.5	90	10x16	105	10x16	125	10x20	125	13x20	160	13x20	170	13x25	180
33	8x11.5	140	10x20	170	10x20	180	13x20	190	13x25	200	13x25	260	16x25	210
47	10x12.5	170	13x20	210	13x20	220	13x20	230	16x25	245	16x25	300	16x31.5	340
56	10x12.5	190	13x20	230	13x20	250	13x25	280	16x25	330	16x31.5	400	16x35.5	400
68	10x16	240	13x20	260	13x25	300	16x25	355	16x31.5	370	16x35.5	480	18x31.5	460
82	10x16	255	13x25	290	13x25	320	16x25	370	16x35.5	385	18x31.5	520	18x35.5	480
100	10x20	280	13x25	310	16x25	345	16x31.5	395	18x31.5	390	18x35.5	550	18x40	560
120	10x20	295	16x25	350	16x25	360	16x31.5	420	18x35.5	400	18x35.5	580		
150	13x20	340	16x25	470	16x31.5	480	16x35.5	460	18x40	420	18x40	650		
180	13x20	410	16x25	550	16x31.5	550	18x35.5	470	18x40	430	18x45	700		
220	13x25	520	16x35.5	580	16x35.5	670	18x35.5	650						
330	16x25	690	18x35.5	700	18x35.5	750								
470	16x25	820	18x40	860										
560	16x35.5	900												
680	16x35.5	920												
820	18x35.5	1020												
1000	18x40	1200												

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105°C, 120Hz. 尺寸 ΦD x L(mm), 纹波电流於 105°C, 120Hz

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