

RT1 系列 RT1 Series

特长 / 用途 Features

- 工作寿命: 105°C, 2000小时
Endurance: 2,000 hours at 105°C
- 标准品, 普通阻抗产品
Standard series for general impedance product
- 符合RoHS指令
RoHS Compliance

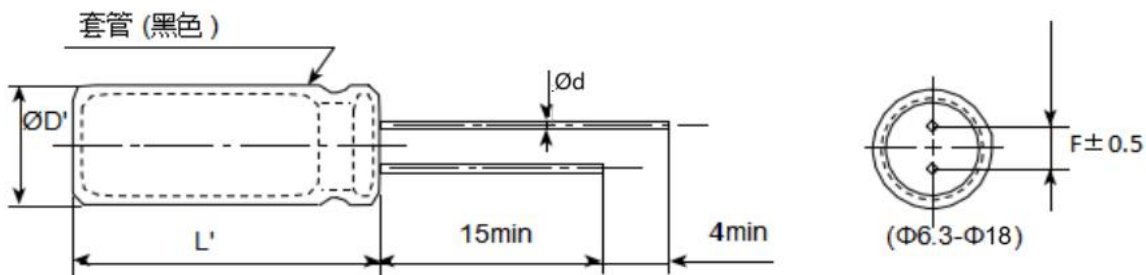


规格表 Specifications

项目 Items	性能 Performance											
工作温度范围 Operating Temperature Range	-40~+105°C (6.3~100Vdc) -25~+105°C (160~500Vdc)											
额定工作电压范围 Rated Working Voltage Range	6.3~500Vdc											
额定静电容量容许误差值 Capacitance Tolerance	± 20% (120 Hz, 20°C)											
漏电流(20°C)* Leakage Current (at 20°C)*	6.3~100Vdc			160~500Vdc						I: 漏电流 (μA) C: 标称电容 (μF) V: 额定电压(V) I: leakage current(μA), C: Nominal capacitance(μF) V: Rated voltage(V)		
	I ≤0.03CV or 4μA(at 1 minute) I ≤0.01CV or 3μA(at 2 minutes) 中任意一个较大值 Which is greater			CV	1分钟后 After 1 minute		5分钟后 After 5 minutes					
				CV ≤1,000	I ≤0.1CV+40μA		I ≤0.03CV+15μA					
CV > 1,000	I ≤0.04CV+100μA		I ≤0.02CV+25μA					(at 20°C after 2minutes)				
损耗角正切值(120 Hz, 20°C) Tanδ (at120 Hz, 20°C)	额定工作电压 (Vdc) Rated Working Voltage	6.3	10	16	25	35	50	63	100	160~250	350~500	
	损耗角正切值(Max.) Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.24	
	对于超过1000μF的产品, 每增加1000μF, 其值便随之增加0.02。 0.02 is added to every 1000μF increase over 1000μF											
温度特性 (最大阻抗比 120Hz) Temperature Characteristics (Max. Impedance Ratio(at120 Hz))	额定工作电压 (Vdc) Rated Working Voltage	6.3	10	16	25	35	50	63	100	160~250	350~450	500
	Z(-25°C)/Z(+20°C)	5	4	3	2			3		6	8	
	Z(-40°C)/Z(+20°C)	12	10	8	5	4	3		-			
工作寿命 Endurance	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, 连续加载额定电压2000小时后, 待温度恢复到20°C进行测量时, 应满足以下要求。 The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage plus the rated ripple current is applied for 2,000 hours at 105°C.											
	静电容量变化率 Capacitance Change	≤±25% 的初始测量值 ≤±25% of the initial value										
	损耗角正切值 Tanδ	≤200%的初始规定值 ≤200% of the initial specified value										
	漏电流 Leakage Current	≤初始规定值 ≤the initial specified value										
高温储存 Shelf Life	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 (JIS C 5101-4 4.1项) 后进行测量时, 应满足以下要求。 The following 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 JIS C 5101-4.											
	静电容量变化率 Capacitance Change	≤±20% 的初始测量值 ≤±20% of the initial value										
	损耗角正切值 Tanδ	≤200% 的初始规定值 ≤200% of the initial specified value										
	漏电流 Leakage Current	≤2 倍规定值 ≤ 200% of the initial specified value										

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纹波电流与频率修正系数 Frequency correction factor for ripple current	频率(Hz) Frequency(Hz)	50	120	300	1k	10k	100k
	Cap. < 10	0.65	1.00	1.35	1.75	2.30	2.50
	10 ≤ Cap. < 100	0.75	1.00	1.25	1.50	1.75	1.80
	100 ≤ Cap. < 1000	0.80	1.00	1.15	1.30	1.40	1.50
	Cap. ≥ 1000	0.85	1.00	1.03	1.05	1.08	1.08

尺寸图 Diagram of Dimensions

产品各项尺寸 Lead Spacing and Diameter

单位: 毫米 Unit: mm

ØD	5	6.3	8		10	12.5/13	16/18	22
Ød ± 0.05	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5		5.0	5.0	7.5	10.0
ØD'	ØD + 0.5max.							
L'	L + 2max.							

标准品一览表 Standard Ratings

额定电压 Rated Voltage (Vdc)	容量 Capacitance (μ F)	尺寸 Size Φ D×L (mm)	额定纹波电流 Rated Ripple Current (mA _{rms} /105°C, 120Hz)	部件编号 Part Number
6.3	33	5×11	64	RT10J330M0511B1
	47	5×11	76	RT10J470M0511B1
	100	5×11	111	RT10J101M0511B1
	220	5×11	163	RT10J221M0511B1
	330	6.3×11	228	RT10J331M0611B1
	470	6.3×11	274	RT10J471M0611B1
	1000	8×12	449	RT10J102M0812B1
	2200	10×20	834	RT10J222M1020B1
	3300	10×20	986	RT10J332M1020B1
	4700	13×20	1283	RT10J472M1320B1
	6800	13×25	1621	RT10J682M1325B1
	10000	16×25	2041	RT10J103M1625B1
	15000	16×35	2391	RT10J153M1635B1
	22000	18×40	2741	RT10J223M1840B1
10	22	5×11	58	RT11A220M0511B1
	33	5×11	70	RT11A330M0511B1
	47	5×11	82	RT11A470M0511B1
	100	5×11	117	RT11A101M0511B1
	220	6.3×11	204	RT11A221M0611B1
	330	6.3×11	245	RT11A331M0611B1
	470	8×12	297	RT11A471M0812B1
	1000	10×13	542	RT11A102M1013B1
	2200	10×20	892	RT11A222M1020B1
	3300	13×20	1125	RT11A332M1320B1
	4700	13×25	1470	RT11A472M1325B1
	6800	16×25	1854	RT11A682M1625B1
	10000	16×35	2240	RT11A103M1635B1
	15000	18×35	2532	RT11A153M1835B1
16	10	5×11	49	RT11C100M0511B1
	22	5×11	64	RT11C220M0511B1
	33	5×11	76	RT11C330M0511B1
	47	5×11	92	RT11C470M0511B1
	100	5×11	134	RT11C101M0511B1
	220	6.3×11	216	RT11C221M0611B1
	330	8×12	309	RT11C331M0812B1
	470	8×12	367	RT11C471M0812B1
	1000	10×16	659	RT11C102M1016B1
	2200	13×20	1084	RT11C222M1320B1
	3300	13×25	1376	RT11C332M1325B1

额定电压 Rated Voltage (Vdc)	容量 Capacitance (μF)	尺寸 Size ΦD×L (mm)	额定纹波电流 Rated Ripple Current (mArms/105°C, 120Hz)	部件编号 Part Number
16	4700	16×25	1842	RT11C472M1625B1
	6800	16×30	2088	RT11C682M1630B1
	10000	18×35	2415	RT11C103M1835B1
25	4.7	5×11	35	RT11E4R7M0511B1
	10	5×11	49	RT11E100M0511B1
	22	5×11	64	RT11E220M0511B1
	33	5×11	79	RT11E330M0511B1
	47	5×11	96	RT11E470M0511B1
	100	6.3×11	158	RT11E101M0611B1
	220	8×12	274	RT11E221M0812B1
	330	8×12	367	RT11E331M0812B1
	470	10×13	443	RT11E471M1013B1
	1000	10×20	792	RT11E102M1020B1
	2200	13×25	1271	RT11E222M1325B1
	3300	16×25	1691	RT11E332M1625B1
	4700	16×30	2041	RT11E472M1630B1
	6800	18×35	2391	RT11E682M1835B1
35	4.7	5×11	35	RT11V4R7M0511B1
	10	5×11	53	RT11V100M0511B1
	22	5×11	97	RT11V220M0511B1
	33	5×11	92	RT11V330M0511B1
	47	5×11	108	RT11V470M0511B1
	100	6.3×11	180	RT11V101M0611B1
	220	8×12	321	RT11V221M0812B1
	330	10×13	408	RT11V331M1013B1
	470	10×16	542	RT11V471M1016B1
	1000	13×20	950	RT11V102M1320B1
	2200	16×25	1470	RT11V222M1625B1
	3300	16×35	1884	RT11V332M1635B1
4700	18×35	2233	RT11V472M1835B1	
50	1	5×11	17	RT11H010M0511B1
	2.2	5×11	24	RT11H2R2M0511B1
	3.3	5×11	29	RT11H3R3M0511B1
	4.7	5×11	35	RT11H4R7M0511B1
	10	5×11	46	RT11H100M0511B1
	22	5×11	76	RT11H220M0511B1
	33	6.3×11	105	RT11H330M0611B1
	47	6.3×11	129	RT11H470M0611B1
	100	8×11	210	RT11H101M0811B1
	220	10×13	350	RT11H221M1013B1
	330	10×16	478	RT11H331M1016B1
	470	10×20	618	RT11H471M1020B1
	1000	13×25	1108	RT11H102M1325B1
2200	16×35	1715	RT11H222M1625B1	

 引线型铝电解电容器
Radial Lead Aluminum Electrolytic Capacitors

额定电压 Rated Voltage (Vdc)	容量 Capacitance (μF)	尺寸 Size ΦD×L (mm)	额定纹波电流 Rated Ripple Current (mArms/105°C, 120Hz)	部件编号 Part Number
50	3300	18×35	2065	RT11H332M1835B1
63	10	5×11	58	RT11J100M0511B1
	22	5×11	87	RT11J220M0511B1
	33	6.3×11	117	RT11J330M0611B1
	47	6.3×11	140	RT11J470M0611B1
	100	10×13	257	RT11J101M1013B1
	220	10×16	391	RT11J221M1016B1
	330	10×20	595	RT11J331M1020B1
	470	13×20	746	RT11J471M1320B1
	1000	16×25	1084	RT11J102M1625B1
100	1	5×11	17	RT12A010M0511B1
	2.2	5×11	26	RT12A2R2M0511B1
	3.3	5×11	35	RT12A3R3M0511B1
	4.7	5×11	38	RT12A4R7M0511B1
	10	6.3×11	63	RT12A100M0611B1
	22	8×12	108	RT12A220M0812B1
	33	8×12	151	RT12A330M0812B1
	47	10×13	192	RT12A470M1013B1
	100	10×20	309	RT12A101M1020B1
	220	13×25	513	RT12A221M1325B1
	330	16×25	630	RT12A331M1625B1
	470	16×30	834	RT12A471M1630B1
	1000	18×40	1149	RT12A102M1840B1
160	3.3	6.3×9	35	RT12C3R3M0609B1
	4.7	6.3×9	41	RT12C4R7M0609B1
	10	8×9	70	RT12C100M0809B1
	22	10×12	114	RT12C220M1012B1
	33	10×12	163	RT12C330M1012B1
	33	10×16	185	RT12C330M1016B1
	47	10×14	165	RT12C470M1014B1
	47	10×20	207	RT12C470M1020B1
	68	10×20	280	RT12C680M1020B1
	100	13×20	350	RT12C101M1320B1
	100	16×20	368	RT12C101M1620B1
	220	16×25	618	RT12C221M1625B1
	330	18×25	700	RT12C331M1825B1
	470	18×35	957	RT12C471M1835B1
200	1	6.3×7	17	RT12D010M0607B1
	2.2	6.3×7	24	RT12D2R2M0607B1
	3.3	6.3×9	35	RT12D3R3M0609B1
	4.7	6.3×9	46	RT12D4R7M0609B1
	10	8×12	93	RT12D100M0812B1
	22	8×16	129	RT12D220M0816B1

额定电压 Rated Voltage (Vdc)	容量 Capacitance (μF)	尺寸 Size ΦD×L (mm)	额定纹波电流 Rated Ripple Current (mArms/105°C, 120Hz)	部件编号 Part Number
200	22	10×12	129	RT12D220M1012B1
	33	10×16	193	RT12D330M1016B1
	33	10×20	216	RT12D330M1020B1
	47	10×20	233	RT12D470M1020B1
	68	13×20	338	RT12D680M1320B1
	82	13×20	350	RT12D820M1320B1
	100	13×20	355	RT12D101M1320B1
	100	16×20	379	RT12D101M1620B1
	150	16×25	521	RT12D151M1625B1
	180	16×25	618	RT12D181M1625B1
	220	18×25	723	RT12D221M1825B1
	330	18×30	840	RT12D331M1830B1
	470	18×40	980	RT12D471M1840B1
250	2.2	6.3×9	26	RT12E2R2M0609B1
	3.3	6.3×9	35	RT12E3R3M0609B1
	4.7	6.3×12	46	RT12E4R7M0612B1
	4.7	8×9	53	RT12E4R7M0809B1
	10	8×12	82	RT12E100M0812B1
	10	10×12	87	RT12E100M1012B1
	22	8×16	117	RT12E220M0816B1
	22	10×16	135	RT12E220M1016B1
	33	10×20	175	RT12E330M1020B1
	33	13×16	192	RT12E330M1316B1
	47	13×20	271	RT12E470M1320B1
	100	16×25	432	RT12E101M1625B1
	150	18×25	530	RT12E151M1825B1
	220	18×30	700	RT12E221M1830B1
	330	18×35	822	RT12E331M1835B1
350	1	6.3×9	15	RT12V010M0609B1
	2.2	6.3×9	27	RT12V2R2M0609B1
	3.3	8×9	36	RT12V3R3M0809B1
	4.7	8×9	53	RT12V4R7M0809B1
	10	10×12	79	RT12V100M1012B1
	22	10×20	158	RT12V220M1020B1
	33	13×20	215	RT12V330M1320B1
	47	16×20	262	RT12V470M1620B1
	68	16×25	392	RT12V680M1625B1
	100	18×30	464	RT12V101M1830B1
400	1	6.3×9	17	RT12G010M0609B1
	2.2	6.3×9	29	RT12G2R2M0609B1
	2.2	8×9	35	RT12G2R2M0809B1
	3.3	6.3×12	41	RT12G3R3M0612B1
	3.3	8×9	46	RT12G3R3M0809B1
	4.7	8×9	53	RT12G4R7M0809B1

额定电压 Rated Voltage (Vdc)	容量 Capacitance (μF)	尺寸 Size ΦD×L (mm)	额定纹波电流 Rated Ripple Current (mA _{rms} /105°C, 120Hz)	部件编号 Part Number
400	4.7	8×12	56	RT12G4R7M0812B1
	10	8×16	107	RT12G100M0816B1
	10	10×12	107	RT12G100M1012B1
	22	10×20	187	RT12G220M1020B1
	33	16×20	301	RT12G330M1620B1
	47	16×20	338	RT12G470M1620B1
	68	16×25	490	RT12G680M1625B1
	68	18×20	490	RT12G680M1820B1
	82	18×25	553	RT12G820M1825B1
	100	18×30	621	RT12G101M1830B1
	120	18×35	686	RT12G121M1835B1
	150	18×35	712	RT12G151M1835B1
450	1	6.3×9	14	RT12W010M0609B1
	1	6.3×12	18	RT12W010M0612B1
	2.2	8×9	26	RT12W2R2M0809B1
	2.2	8×12	29	RT12W2R2M0812B1
	3.3	8×12	38	RT12W3R3M0812B1
	4.7	10×12	56	RT12W4R7M1012B1
	10	10×16	99	RT12W100M1016B1
	10	10×20	105	RT12W100M1020B1
	22	13×20	175	RT12W220M1320B1
	22	16×20	216	RT12W220M1620B1
	33	16×20	245	RT12W330M1620B1
	47	16×25	391	RT12W470M1625B1
	68	18×25	467	RT12W680M1825B1
	82	18×30	554	RT12W820M1830B1
	100	18×35	617	RT12W101M1835B1
	120	18×40	683	RT12W121M1840B1
150	18×45	724	RT12W151M1845B1	
500	4.7	10×16	58	RT12H4R7M1016B1
	10	13×20	134	RT12H100M1320B1
	15	13×25	163	RT12H150M1325B1
	22	16×25	228	RT12H220M1625B1
	33	18×25	251	RT12H330M1825B1
	47	18×35	403	RT12H470M1835B1
	68	18×35	461	RT12H680M1835B1
	82	18×40	578	RT12H820M1840B1

容许纹波电流: 毫安/均方根值(mA/rms), 120 赫兹(Hz)

Allowable Ripple Current: mA/rms at 120k Hz

 引线型铝电解电容器
Radial Lead Aluminum Electrolytic Capacitors