

RS1 Series (standard)

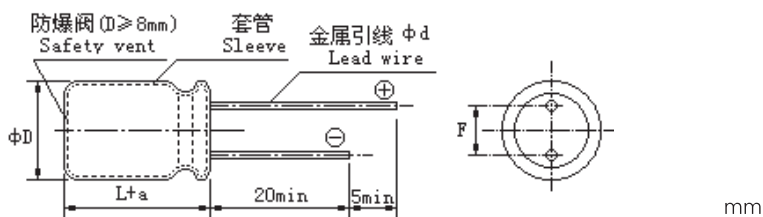
- 体积小 • 85°C、2000 小时
- 性能稳定，符合 RoHS
- Small size • 85°C, 2000 hours
- High stability, RoHS Compliance



主要技术性能 Specifications

使用温度范围 Operating Temperature Range	-40 ~ +85°C							-25 ~ +85°C							
额定电压范围 Rated Voltage Range	6.3 ~ 100V DC							160 ~ 450V DC							
标称电容量允许偏差 Capacitance Tolerance	± 20% (120Hz, 20°C)														
漏电流 Leakage Current	6.3 ~ 100V.DC							160 ~ 450V.DC							
	I ≤ 0.01CV 或 3 μA 取较大者(2分钟) I ≤ 0.01CV or 3 μA Whichever is greater (after 2 minutes)							CV ≤ 1000			CV > 1000				
损耗角正切值 Dissipation Factor (120Hz 20°C)	W.V	6.3	10	16	25	35	50	63	100	160	250	350	400	450	
	tg δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.20	0.20	0.25	0.25	
容量大于 1000 μF 者，每增加 1000 μF，其损耗角正切值增加 0.02 For capacitance exceeding 1000 μF, add 0.02 per increment of 1000 μF															
温度特性 (20Hz) Temperature characteristics Impedance at 120Hz	WV	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	Z ₂₅ / Z ₂₀	5	4	3	2	2	2	2	2	3	3	4	5	5	7
	Z ₄₀ / Z ₂₀	12	10	8	5	4	3	3	3	4	4	8	8	10	-
耐久性 Load Life	+85°C施加带纹波电流的额定电压 2000 小时，恢复 16 小时后。 After applying rated voltage with specified ripple current for 2000 hours at +85°C and then resumed 16 hours. The capacitor shall meet the following limits.														
	电容量变化率 Capacitance Change	≤ ± 25% 初始测量值 ≤ ± 25% of Initial measured value													
	漏电流值 Leakage	≤ 规定值 ≤ The specified value													
	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 ≤ 200% of the specified value													
高温贮存 Shelf Life	+85°C, 1000 小时，然后按 JISC5101-4 第 4.1 项预处理后测量。 After storage for 1000 hours at +85°C, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JISC5101-4.														
	电容量变化率 Capacitance Change	≤ ± 20% 初始测量值 ≤ ± 20% of Initial measured value													
	漏电流值 Leakage	≤ 规定值 ≤ The specified value													
	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 ≤ 200% of the specified value													

外形图及尺寸 Case size table



ΦD ± 0.5	5	6.3	8	10	12.5 or 13	16	18
L	11	11	11.5	12, 16, 20	20, 25	25, 31, 36	36, 40
F ± 0.5	2.0	2.5	3.5	5.0			7.5
Φd ± 0.05	0.5		0.6				0.8
a	1.5 (WV ≤ 100); 2.0 (WV > 100)					2.0	

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■ 标称电容量、额定电压、额定纹波电流及外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

WV mA	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA
1.0 (010)											5×11	13		
2.2 (2R2)											5×11	23		
3.3 (3R3)											5×11	35		
4.7 (4R7)											5×11	41		
10 (100)											5×11	60	5×11	70
22 (220)									5×11	90	5×11	95	5×11	110
33 (330)							5×11	98	5×11	110	5×11	130	6.3×11	140
47 (470)					5×11	115	5×11	120	5×11	135	6.3×11	160	6.3×11	190
100 (101)	5×11	135	5×11	140	5×11	175	5×11	185	6.3×11	215	8×11.5	270	8×11.5	290
220 (221)	5×11	220	5×11	230	6.3×11	280	6.3×11	310	8×11.5	370	10×12	435	10×16	490
330 (331)	6.3×11	280	6.3×11	310	6.3×11	360	8×11.5	410	10×12	500	10×16	590	10×20	710
470 (471)	6.3×11	360	6.3×11	400	8×11.5	460	8×11.5	550	10×12	680	10×20	760	12.5×20	900
680 (681)	6.3×11	460	8×11.5	580	8×11.5	620	10×12	780	10×16	910	12.5×20	1000	12.5×25	1200
1000 (102)	8×11.5	590	8×11.5	560	10×12	720	10×16	870	10×20	1180	12.5×25	1350	16×25	1350
2200 (222)	10×16	920	10×16	1090	10×20	1320	12.5×20	1500	16×25	1810	16×31	1980	18×31	1800
3300 (332)	10×20	1200	10×20	1440	12.5×20	1600	16×25	2000	16×25	1990	18×31	2100	18×40	2600
4700 (472)	12.5×20	1550	12.5×20	1680	12.5×25	2050	16×25	2120	16×36	2500	18×40	2800		
6800 (682)	12.5×25	1920	12.5×25	2150	16×25	2250	16×31	2440	18×36	2740				
10000 (103)	16×25	2370	16×25	2270	16×31	2660	18×36	2900						
15000 (153)	16×31	2550	16×36	2880	18×36	2950								
22000 (223)	16×36	2900	18×36	3100										
33000 (333)	18×40	3400												

WV mA	100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA
0.47 (R47)	5×11	8					6.3×11	8	6.3×11	8	6.3×11	8	6.3×11	8
1.0 (010)	5×11	16					6.3×11	16	6.3×11	16	6.3×11	16	6.3×11	16
2.2 (2R2)	5×11	35					6.3×11	30	6.3×11	30	8×11.5	31	8×11.5	29
3.3 (3R3)	5×11	45			6.3×11	40	6.3×11	45	8×11.5	45	8×11.5	48	8×11.5	33
4.7 (4R7)	5×11	50	6.3×11	45	6.3×11	51	6.3×11	54	8×11.5	55	10×12	56	10×12	46
10 (100)	5×11	75	8×11.5	83	8×11.5	85	10×12	90	10×16	90	10×16	90	10×20	84
22 (220)	6.3×11	135	10×12	130	10×16	150	10×16	150	12.5×20	185	12.5×20	200	12.5×25	140
33 (330)	8×11.5	185	10×16	180	10×20	205	10×20	205	12.5×25	240	12.5×25	240	16×25	180
47 (470)	8×11.5	220	10×20	230	10×20	220	12.5×20	260	16×25	300	16×25	250	16×31	220
100 (101)	10×16	380	12.5×25	430	12.5×25	320	16×25	450	18×31	520	18×36	420	18×40	280
220 (221)	12.5×20	610	16×31	645	16×31	540	18×36	680						
330 (331)	12.5×25	760	16×36	700	18×36	800								
470 (471)	16×25	1000	18×40	1200										
680 (681)	16×31	1100												
1000 (102)	18×31	1200												

I~ 额定纹波电流 Rated ripple current: (mA, 85°C, 120Hz)