

RS series

+105°C, High Ripple Current(高纹波), Long Life(长寿命).

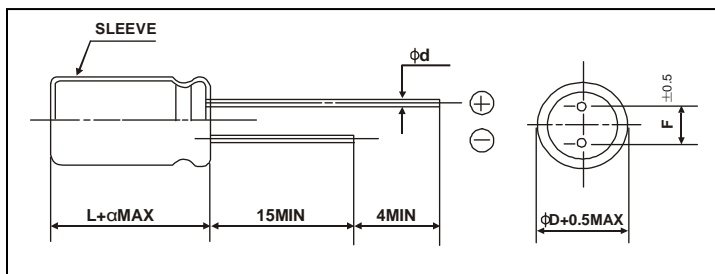
◆ FEATURES

- Load life:105°C 8000~10000H hours
- For LED Drive
- High Ripple Current

◆ SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40°C~+105°C							
Rated Voltage Range	160~450V.DC							
Nominal Capacitance Range	1~220μ F							
Capacitance Tolerance	±20%(120Hz,+20°C)							
Leakage Current(MAX)	I=0.02CV+10(μA) after 2 minutes with rated working voltage at 20°C							
Dissipation Factor(MAX) Tanδ (20°C,120Hz)	Rated Voltage(V)	160	200	250	350	400	450	
	Tanδ	0.15	0.15	0.15	0.20	0.20	0.20	
Load Life	After applying rated voltage with max ripple current for 8000~10000hrs at 105°C,the capacitors shall meet the following requirements							
	Capacitance Change	Within ±20% of the initial value					ΦD	Load life
	Dissipation Factor	Not more than 200% of the specified value					~Φ10	8000
	Leakage Current	Not more than the specified value					Φ12.5~	10000
Shelf Life	After Leaving capacitors under no load at 105°C for 1000hrs,they meet the characteristic requirements listed at right							
	Capacitance change	Within ±20% of the initial value						
	Tanδ	≤200% of initial specified value						
Low Temperature Stability Impedance Rate(MAX)	Rated Voltage(V)	160	200	250	350	400	450	
	Z-25°C/Z+20°C	3	3	3	5	5	5	
	Z-40°C/Z+20°C	6	6	6	6	6	6	
Other	JIS-5141 EIAJ RC-2372							

◆ CASE SIZE TABLE



ΦD	8	10	13	16	18
F	3.5	5.0	5.0	7.5	7.5
φd	0.5	0.6	0.6	0.8	0.8
α	L≤16:α =1.5			L≥20:α =2.0	

◆ RIPPLE CURRENT MULTIPLIER

- Frequency coefficient

Frequency(Hz)	120	1k	10k	100k~
~180	0.40	0.75	0.90	1.00
220~	0.50	0.85	0.94	1.00

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage Code Cap(μ F)		160V(2C)		200V(2D)		250V(2E)	
		Size	Ripple	Size	Ripple	Size	Ripple
2.2						6.3*12	110
4.7	475			6.3*12	140	8×12	160
6.8	685			---	---	8×12	250
10	106	8×12	320	8×12	320	10×13	320
22	226	10×16	500	10×16	500	10×16	500
33	336	10×20	650	10×20	650	13×20	800
47	476	10×20	750	13×20	980	13×20	980
68	686	13×20	1180	13×20	1300	13×25	1300
100	107	13×20	1420	13×25	1530	16×25	1680
220	227	18×25	2370	18×30	2500	18×35	2620

Voltage Code Cap(μ F)		350V(2V)		400V(2G)		450V(2W)	
		Size	Ripple	Size	Ripple	Size	Ripple
1	105	6.3×12	55	6.3×12 8×12	55 60		
		8×12	60				
2.2	225	6.3×12	85	6.3×12 8×12	85 95		
		8×12	95				
3.3	335	8×12	150	8×12	150	8×12	170
4.7	475	8×12	220	8×12	220	8×14	250
6.8	685	8×12	220	8×12 8×14	220 280	10×13	300
		8×14	280				
8.2	825	8×16	300	8×16	300	10×13	320
10	106	10×16	350	10×16	350	10×20	450
15	156	10×16	550	10×16	550	13×20	600
22	226	13×17	730	13×17 13×20	730 760	13×20	780
		13×20	760				
33	336	13×25	900	13×25 16×20	900	13×25	930
		16×20					
47	476	16×20	1100 1180	16×20 16×25	1100 1180	16×25 18×25	1100 1200
		16×25					
68	686	18×20	1470	18×20	1470	18×25	1500
82	826	18×25	1520	18×25	1520	18×30	1550
100	107	18×30	1680	18×30	1680	18×35	1700
120	127	18×32	1800	18×32	1800	18×35	1850
150	157	18×35	1920	18×35	1920	18×45	1980

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz