RS Series

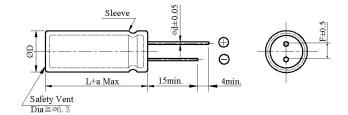
- Miniaturized, Low profile with 7mm height
- Suitable for LED driving power
- Load life 5,000~6,000 hours at 105℃
- RoHS Compliant



♦ SPECIFICATIONS

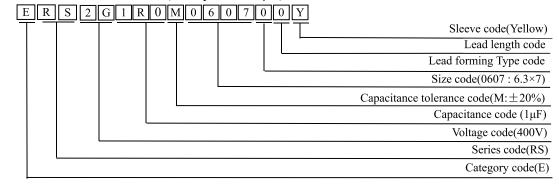
Item	Performance Characteristics													
Category Temperature Range	-40 ~ +105 °C													
Working Voltage Range	6.3 ~ 400Vdc													
Capacitance Range		1 ~ 680μF												
Capacitance Tolerance		±20% (at 20°C and 120Hz)												
Dissipation Factor	Rated Voltage (V)	6.3	10	16	25	35	5	50	63	80	100	160~250	350~400	
(tanδ) (at 20°C, 120Hz)	tanδ(Max)	0.32	0.28	00.24	0.20	0.1	6 (0.14	0.14	0.12	0.12	0.15	0.20	
	6.3	~100V	de					1	60~400	0~400Vdc				
Leakage Current	I \leq 0.01CV or 3 μ A,Which is greater(2minutes) I \leq 0.02CV+						V+ 10μ.	+ 10μA (2minutes)						
	I: Leakage current (μA) C: Rated capacitance (μF) V: Rated voltage (V)													
Low Temperature Characteristics	Rated Voltage (V)	6.3	10	16	25 3	35 :	50	63	80	100	160~250	350~400		
Impedance Ratio(MAX)	Z(-40°C)/Z(+20°C)	12	10	8	6	4	4	4	4	4	7	9	(at 120Hz)	
	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 5,000 to 6,000 hours at 105°C.													
	Capacitance change		5,000 to ≦ ±30%						Si	ze	Life time (hours)		
Endurance	Dissipation factor(ta		≤ 300% of the specified value					-	≦6	.3Ф	5,000			
	Leakage current		≤ specified value					-	8Ф-	~10Ф	6,000)		
	The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied.													
Shelf Life	Capacitance change	williout		age applied. $\leq \pm 30\%$ of the initial value										
Shell Life	Dissipation factor(ta	ınδ)		= 250% of the initial value ≤ 300% of the specified value										
	Leakage current			= 300% of the specified value ≤ 200% of the specified value										

♦ DIMENSIONS (mm)



ΦD	5	6.3	8	10						
ΦD	ФD +0.5 Max									
Φd	0.45	0.50	0.50	0.6						
F	2.0	2.5	3.5	5.0						
a	L+2.0 Max									

♦ PART NUMBER SYSTEM(Example : 400V 1μF)



RS Series

♦ Case size & Permissible rated ripple current: (mA rms) at 105°C / 100KHz

Vdc	6.3	BV	10	V	16	5V	25	SV.	35	SV
μF	$\Phi D \times \Gamma$	RC	ΦD×L	RC						
4.7							5×7	50	5×7	50
5.6							5×7	52	5×7	52
6.8							5×7	55	5×7	50
8.2							5×7	55	5×7	50
10	5×7	52	5×7	55	5×7	55	5×7	60	5×7	50
12	5×7	55	5×7	55	5×7	58	5×7	60	5×7	60
15	5×7	55	5×7	58	5×7	60	5×7	60	5×7	60
18	5×7	58	5×7	60	5×7	60	5×7	60	5×7	60
22	5×7	62	5×7	70	5×7	70	5×7	70	5×7	70
27	5×7	70	5×7	70	5×7	70	5×7	70	6.3×7	80
33	5×7	80	5×7	80	5×7	80	5×7	85	6.3×7	90
39	5×7	80	5×7	80	5×7	80	5×7	85	6.3×7	98
47	5×7	90	5×7	90	5×7	90	5×7	90	6.3×7	105
56	5×7	85	5×7	90	5×7	95	6.3×7	98	8×7	115
68	5×7	90	5×7	95	5×7	100	6.3×7	110	8×7	125
82	5×7	95	5×7	98	6.3×7	105	6.3×7	115	8×7	140
100	5×7	105	6.3×7	115	6.3×7	115	8×7	125	8×7	170
120	5×7	110	6.3×7	115	6.3×7	128	8×7	140	10×7	180
150	6.3×7	115	6.3×7	135	6.3×7	140	8×7	170	10×7	210
180	6.3×7	135	8×7	160	6.3×7	170	10×7	190		
220	6.3×7	160	8×7	170	6.3×7	190	10×7	220		
270	8×7	170	8×7	190	10×7	220				
330	8×7	180	10×7	220	10×7	240				
390	8×7	190	10×7	240	10×7	260				
470	8×7	200	10×7	280						
560	10×7	460								
680	10×7	680								_

Vdc	50)V	63	BV	80	V	10	0V	160V	
μF	$\Phi D \times \Gamma$	RC	ΦD×L	RC						
2.2	5×7	30	5×7	30	5×7	30	5×7	31	5×7	32
2.7	5×7	30	5×7	30	5×7	30	5×7	31	5×7	32
3.3	5×7	30	5×7	30	5×7	30	5×7	31	6.3×7	32
3.9	5×7	30	5×7	30	5×7	30	5×7	31	6.3×7	33
4.7	5×7	30	5×7	30	5×7	30	5×7	31	6.3×7	35
5.6	5×7	30	5×7	30	5×7	30	5×7	31	8×7	50
6.8	5×7	30	5×7	30	5×7	30	6.3×7	30	8×7	55
8.2	5×7	30	5×7	30	5×7	30	6.3×7	40	8×7	60
10	5×7	30	5×7	30	6.3×7	50	6.3×7	50	8×7	65
12	5×7	37	6.3×7	50	6.3×7	55	8×7	75	10×7	95
15	5×7	44	6.3×7	56	6.3×7	70	8×7	85	10×7	115
18	6.3×7	55	6.3×7	70	6.3×7	75	8×7	100		
22	6.3×7	65	8×7	75	8×7	85	8×7	120		
27	6.3×7	78	8×7	85	8×7	100	10×7	130		
33	8×7	85	8×7	100	8×7	120	10×7	150		
39	8×7	100	8×7	120	10×7	130				
47	8×7	120	10×7	130	10×7	150				
56	8×7	125	10×7	150	10×7	160				
68	10×7	140	10×7	160						
82	10×7	160								
100	10×7	180								

RS Series

 \blacklozenge Case size & Permissible rated ripple current: (mA rms) at $105 \ensuremath{^{\circ}\text{C}}\xspace$ / 100 KHz

Vdc	200V		25	0V	35	0V	400V		
μF	$\Phi D \times \Gamma$	RC	$\Phi D \times \Gamma$	RC	$\Phi D \times \Gamma$	RC	$\Phi D \times \Gamma$	RC	
1.0	5×7	20	5×7	20	6.3×7	25	6.3×7	25	
1.2	5×7	20	5×7	20	6.3×7	30	6.3×7	30	
1.5	5×7	22	5×7	22	6.3×7	35	6.3×7	35	
1.8	5×7	22	5×7	22	6.3×7	40	6.3×7	40	
2.2	6.3×7	25	6.3×7	25	8×7	50	8×7	50	
2.7	6.3×7	35	6.3×7	35	8×7	55	8×7	55	
3.3	6.3×7	40	6.3×7	40	8×7	70	8×7	70	
3.9	8×7	50	8×7	50	10×7	80	10×7	80	
4.7	8×7	55	8×7	55	10×7	95	10×7	95	
5.6	8×7	65	8×7	65	10×7	108			
6.8	8×7	72	10×7	80					
8.2	10×7	95	10×7	95					
10	10×7	108	10×7	108					

♦ RIPPLE CURRENT MULTIPLIERS Frequency Multipliers

Vdc	Con (oF)	Frequency (Hz)							
	Cap(uF)	50	120	1K	10K	100K			
6.3 ~ 400	1~8.2	0.26	0.40	0.70	0.90	1.00			
	10~82	0.41	0.55	0.83	0.94	1.00			
	100~680	0.54	0.67	0.87	0.96	1.00			