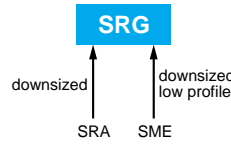


SRG Series

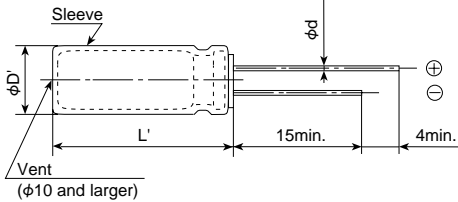
- Low profile : $\phi 4 \times 7\text{mm}$ to $\phi 18 \times 25\text{mm}$
- Endurance : 85°C 1000 to 2000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)



◆ SPECIFICATIONS

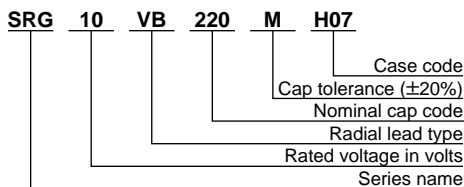
Items	Characteristics							
Category	-40 to +85°C							
Temperature Range								
Rated Voltage Range	4 to 50V _{dc}							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)							
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V
	tanδ (Max.)	0.38	0.28	0.24	0.20	0.16	0.14	0.12
	When nominal capacitance exceeds 1000μF, add 0.03 to the value above for each 1000μF increase. (at 20°C, 120Hz)							
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	4V	6.3V	10V	16V	25V	35V	50V
	Z(-25°C)/Z(+20°C)	6	5	4	3	2	2	2
	Z(-40°C)/Z(+20°C)	12	12	10	8	5	4	3
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours (1000 hours for $\phi 8$ and smaller) at 85°C.							
	Capacitance change	≤±20% of the initial value						
	D.F. (tanδ)	≤200% of the initial specified value						
	Leakage current	≤The initial specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 85°C without voltage applied.							
	Capacitance change	≤±20% of the initial value						
	D.F. (tanδ)	≤200% of the initial specified value						
	Leakage current	≤The initial specified value						

◆ DIMENSIONS (Radial Lead Type=VB) [mm]



φD	4	5	6.3	8	10 & 12.5	16 & 18
7L	0.45	0.45	0.45	0.45	—	—
φd	≥9L	—	0.5	0.5	0.6	0.6
F	1.5	2.0	2.5	3.5	5.0	7.5
φD'	φD+0.5max.					
L'	L+1.5max. (7L : L+1.0max.)					

◆ PART NUMBERING SYSTEM



Capacitance	Code
0.1μF	R1
0.47μF	R47
1.0μF	1
4.7μF	4R7
10μF	10
100μF	100

◆ CASE CODE

φD (mm)	L (mm)	7	9	12.5	13	15	20	25
4		D07						
5		E07	E09					
6.3		F07	F09					
8		H07	H09					
10			J09	J12				
12.5					K13	K15		
16						L15		
18						M15	M20	M25

SRG Series 9 to 25mm-length

◆STANDARD RATINGS

μF \ V _{dc}	6.3		10		16		25		35		50	
1.0											5×9	13
2.2											5×9	26
3.3											5×9	32
4.7											5×9	38
10											5×9	64
22											5×9	86
33									5×9	94	6.3×9	113
47							5×9	105			6.3×9	135
100			5×9	132			6.3×9	172	8×9	220	10×9	240
220			6.3×9	218	8×9	290			10×9	335	10×12.5	415
330	6.3×9	247			8×9	355	10×9	380	10×12.5	475	12.5×13	525
470			8×9	385	10×9	410	10×12.5	525	12.5×13	585	16×15	745
1,000	10×9	505	10×12.5	625	12.5×13	715	12.5×15	830	16×15	1,010	18×20	1,160
2,200			12.5×15	970	16×15	1,160	18×15	1,360	18×20	1,560		
3,300			16×15	1,310	18×15	1,460	18×20	1,720				
4,700	16×15	1,410	18×15	1,560	18×20	1,770	18×25	2,070				
6,800	18×15	1,660	18×20	1,870	18×25	2,170						
10,000	18×20	2,020	18×25	2,370								

↑ Rated ripple current (mAmps) at 85°C, 120Hz
Case size φD×L (mm)

Note : → Use next higher voltage part.

SRG Series 7mm-length

◆STANDARD RATINGS

μF \ V _{dc}	4		6.3		10		16		25		35		50		
0.1													4×7	1.3	
0.22													4×7	2.9	
0.33													4×7	3.5	
0.47													4×7	5.0	
1.0													4×7	10	
2.2													4×7	15	
3.3													4×7	19	
4.7													4×7	24	
10											4×7	32	5×7	42	
22						4×7	46	4×7	42		5×7	57	6.3×7	64	
33					4×7	46				5×7	66	6.3×7	73	8×7	93
47			4×7	50			5×7	73	6.3×7	80	8×7	101			
100			5×7	87			6.3×7	110							
220			6.3×7	133	8×7	171									
330			8×7	191											
470	8×7	154													

↑ Rated ripple current (mAmps) at 85°C, 120Hz
Case size φD×L (mm)

Note : → Use next higher voltage part.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance (μF) \ Frequency (Hz)	50	120	300	1k	10k	100k
to 4.7	0.65	1.00	1.35	1.75	2.30	2.50
10 to 47	0.75	1.00	1.25	1.50	1.75	1.80
100 to 1,000	0.80	1.00	1.15	1.30	1.40	1.50
2,200 to	0.85	1.00	1.03	1.05	1.08	1.08