

SGV SERIES

105°C Standard, Lead Free Reflow Soldering

◆FEATURES

- Load Life : 105°C 2000~5000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.
- RoHS compliance.



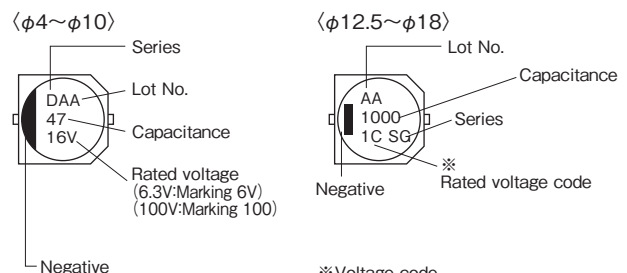
◆SPECIFICATIONS

Items	Characteristics										
	-55~+105°C	-40~+105°C	-25~+105°C								
Category Temperature Range	-55~+105°C	-40~+105°C	-25~+105°C								
Rated Voltage Range	6.3~50Vdc	63, 100Vdc	400Vdc								
Capacitance Tolerance	±20%(20°C,120Hz)										
Leakage Current(MAX)	6.3~100Vdc	400Vdc									
	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)		I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes)								
	I= Leakage Current(μA)	C=Capacitance(μF)	V=Rated Voltage(Vdc)								
(tanδ) Dissipation Factor(MAX)	Rated Voltage (Vdc)										(20°C,120Hz)
	tanδ	6.3	10	16	25	35	50	63	100	400	
	φ4,φ5,φ6.3×6.1	0.30	0.24	0.20	0.16	0.14	0.12	-	-	-	
	φ6.3×8,φ8~φ18	0.35	0.26	0.24	0.18	0.14	0.12	0.12	0.10	0.20	
	When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.										
Endurance	After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements.										
	Capacitance Change	Within ±25% of the initial value.								Rated Voltage (Vdc)	Life Time (hrs)
	Dissipation Factor	Not more than 200% of the specified value.								6.3~100	2000
	Leakage Current	Not more than the specified value.								400	5000
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage (Vdc)										(120Hz)
	Z(-25°C)/Z(20°C)	6.3	10	16	25	35	50	63	100	400	
	Z(-40°C)/Z(20°C)	4	3	2	2	2	2	2	2	6	
	Z(-40°C)/Z(20°C)	8	8	4	4	3	3	5	5	-	

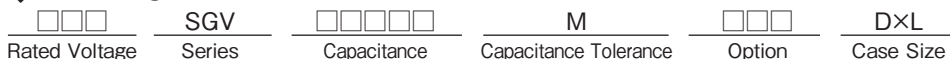
◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120	500	1k	10k≤
0.47~1μF	0.50	1.00	1.20	1.30	1.50
2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
10~47μF	0.80	1.00	1.20	1.30	1.50
100~1000μF	0.80	1.00	1.10	1.15	1.20
2200~6800μF	0.80	1.00	1.05	1.10	1.15

◆MARKING



◆PART NUMBER

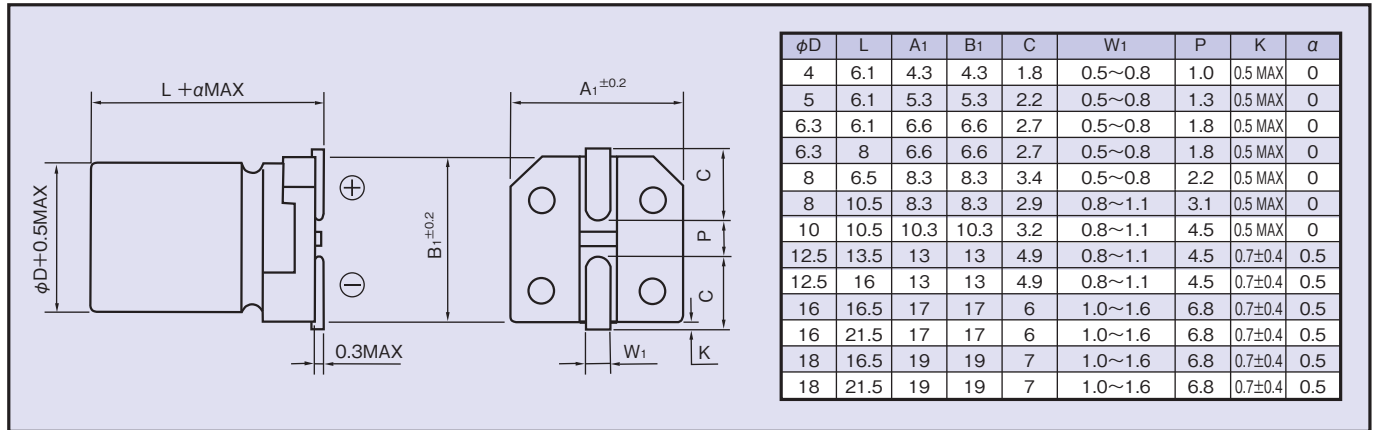


※ Voltage code

Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	400
Rated Voltage code	0J	1A	1C	1E	1V	1H	1J	2A	2G

◆ DIMENSIONS

(mm)


◆ STANDARD SIZE

 Size $\phi D \times L$ (mm), Rated Ripple Current (mA r.m.s./105°C, 120Hz)

Vdc	Cap (μF)	Size (φDXL)	Ripple	Vdc	Cap (μF)	Size (φDXL)	Ripple	Vdc	Cap (μF)	Size (φDXL)	Ripple		
6.3	22	4×6.1	26	25	33	6.3×6.1	65	63	22	8×10.5	55		
	33	4×6.1	29		47	6.3×8	79		33	8×10.5	115		
	47	5×6.1	46		8×6.5	91	47		8×10.5	120			
	100	6.3×6.1	71		100	8×10.5	180		100	12.5×16	225		
	220	6.3×8	121		220	8×10.5	320		220	16×16.5	385		
	470	8×10.5	210		10×10.5	355	330		16×21.5	490			
	1000	10×10.5	495		12.5×13.5	450	18×16.5		590				
	2200	12.5×16	750		470	10×10.5	490		470	18×21.5	590		
	3300	16×21.5	930		1000	16×21.5	700		10	8×10.5	65		
	4700	18×21.5	1200		18×16.5	1050	700		22	10×10.5	90		
6800	18×21.5	1350	4700	18×21.5	1700	33	10×10.5	135					
10	33	5×6.1	43	35	4.7	4×6.1	15	100	47	12.5×13.5	160		
	100	6.3×6.1	71		10	5×6.1	28		100	16×16.5	285		
	330	8×10.5	195		22	6.3×6.1	55		220	16×21.5	440		
	470	8×10.5	210		33	6.3×8	76		18×16.5	440			
	1000	10×10.5	440		8×6.5	84	10		12.5×13.5	92			
	2200	16×16.5	810		100	8×10.5	180		22	16×21.5	170		
	3300	16×21.5	1000		10×10.5	305	33		18×21.5	238			
	4700	18×21.5	1200		12.5×13.5	450	100		8×10.5	180			
	16	10	4×6.1		28	330	12.5×16		460	50	470	16×16.5	490
		22	5×6.1		39	470	16×16.5		490		0.47	4×6.1	4
47		6.3×6.1	70	1000	16×21.5	750	1	4×6.1	8				
100		6.3×8	111	18×16.5	750	2.2	4×6.1	11					
220		8×10.5	185	470	16×16.5	490	3.3	4×6.1	14				
330		8×10.5	290	1000	16×21.5	750	4.7	5×6.1	19				
470		8×10.5	320	18×16.5	750	10	6.3×6.1	35					
1000		16×16.5	630	22	6.3×8	67	22	6.3×8	67				
2200		16×21.5	930	33	8×6.5	70	33	8×10.5	140				
3300		18×21.5	1150	47	8×10.5	167	47	8×10.5	167				
			1000	10×10.5	180	100	8×10.5	230					
				10×10.5	315	220	12.5×16	380					
				12.5×16	470	330	16×16.5	470					
				16×21.5	550	470	16×21.5	550					
				18×16.5	550	1000	18×21.5	820					
				18×21.5	820								