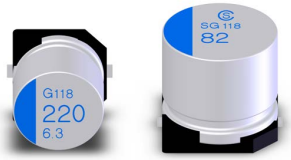
SG Series

- **Low ESR at a high frequency range**
- **High ripple current capability**
- **2,000 hours at 105°C**

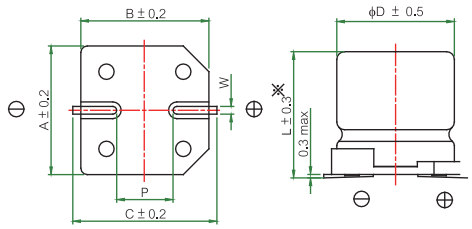


◆ SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-55 ~ +105℃
Working Voltage Range	2.5 ~ 63Vdc
Surge Voltage	Rated Voltage x1.15
Capacitance Tolerance	M: ±20% (at 25℃ and 120Hz)
ESR	See the standard ratings table (at 25℃, 100~300KHz)
Dissipation Factor (Tanδ)	See the standard ratings table (at 25℃, 120Hz)
Leakage Current ※1	See the standard ratings table (Impress the rated voltage for 2 minutes)
Low Temperature Characteristics Impedance Ratio	Z(-25℃)/Z(+25℃) ≤1.15 at 100KHz Z(-55℃)/Z(+25℃) ≤1.25 at 100KHz
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C Capacitance change: ≦ ±20% of the initial value ESR: ≦ 150% of the specified value Dissipation factor(tanδ): ≦ 150% of the specified value Leakage current: ≦ specified value
Damp Heat (Steady State)	The following requirements shall be satisfied when the capacitor are restored to 25℃ after exposing them for 1,000 hours at 60℃ 90 to 95% RH Capacitance change: ≦ ±20% of the initial value ESR: ≦ 150% of the specified value Dissipation factor(tanδ): ≦ 150% of the specified value Leakage current: ≦ specified value

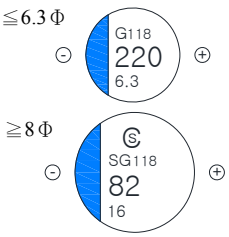
※1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at105°C
※2 ESR should be measured at both of the terminal ends closest to the capacitor body

◆DIMENSIONS (mm)

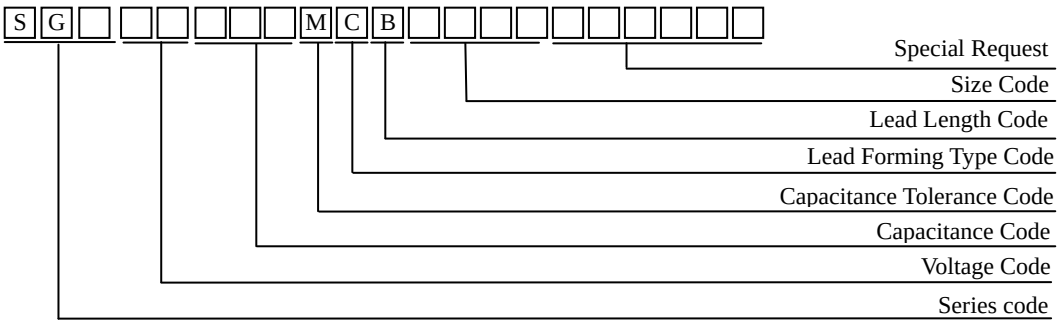


Code	Case Size	ΦD	L	A	B	C	W	P
5057	5×5.7	5	5.7	5.3	5.3	5.9	0.5~0.8	1.4
6357	6.3×5.7	6.3	5.7	5.6	6.6	7.3	0.5~0.8	2.1
6397	6.3×9.7	6.3	9.7	5.6	6.6	7.3	0.7~1.1	3.2
8067	8×6.7	8	6.7	8.3	8.3	9	0.7~1.1	3.2
8097	8×9.7	8	9.7	8.3	8.3	9	0.7~1.1	3.2
1077	10×7.7	10	7.7	10.3	10.3	11	0.7~1.1	4.6
1124	10×12.4	10	12.4	10.3	10.3	11	0.7~1.1	4.6

◆Marking



◆ PART NUMBER SYSTEM



SG Series

◆ **Standard Ratings**

Rated Voltage (Vdc)	Rated Capacitance (μF)	Case Size ΦD×L (mm)	ESR 100~300KHz (mΩ max)	Rated Ripple Current 105℃,100KHz (mArms max)	Tan δ max	Leakage Current (μA max)	Part Number
2.5(0E)	220	6.3×5.7	25	2500	0.12	300	SG0E221MCB6357
	560	6.3×5.7	25	2500	0.12	420	SG0E561MCB6357
	680	8×6.7	20	3370	0.12	510	SG0E681MCB8067
	1500	10×12.4	12	5400	0.12	1125	SG0E152MCB1124
	2700	10×12.4	12	5070	0.12	2025	SG0E272MCB1124
4(0G)	100	6.3×5.7	35	2200	0.12	300	SG0G101MCB6357
	150	5×5.7	30	1490	0.12	300	SG0G151MCB5057
	330	6.3×5.7	27	2700	0.12	400	SG0G331MCB6357
	680	10×7.7	20	4130	0.12	816	SG0G681MCB1077
	1200	10×12.4	12	5500	0.12	1440	SG0G122MCB1124
6.3(0J)	82	6.3×5.7	35	2200	0.12	300	SG0J820MCB6357
	100	5×5.7	35	1380	0.12	300	SG0J101MCB5057
	220	6.3×5.7	27	2320	0.12	416	SG0J221MCB6357
	330	10×7.7	22	3600	0.12	624	SG0J331MCB1077
	390	8×6.7	18	3220	0.12	737	SG0J391MCB8067
	820	10×12.4	12	5500	0.12	1550	SG0J821MCB1124
10(1A)	47	6.3×5.7	40	2100	0.12	300	SG1A470MCB6357
	56	6.3×5.7	40	2100	0.12	300	SG1A560MCB6357
	120	8×6.7	30	2600	0.12	360	SG1A121MCB8067
	270	10×7.7	25	3500	0.12	810	SG1A271MCB1077
	330	10×7.7	25	3770	0.12	990	SG1A331MCB1077
	560	10×12.4	13	5300	0.12	1680	SG1A561MCB1124
16(1C)	33	6.3×5.7	37	2050	0.12	300	SG1C330MCB6357
	39	6.3×5.7	45	2000	0.12	300	SG1C390MCB6357
	82	8×6.7	40	2300	0.12	394	SG1C820MCB8067
	100	6.3×5.7	24	2490	0.12	300	SG1C101MCB6357
	100	10×7.7	30	3200	0.12	480	SG1C101MCB1077
	180	6.3×5.7	22	3300	0.12	576	SG1C181MCB6357
	180	10×7.7	29	3200	0.12	864	SG1C181MCB1077
	270	6.3×9.7	22	3300	0.12	864	SG1C271MCB6397
	330	8×9.7	16	3890	0.12	1584	SG1C331MCB8097
	330	10×12.4	16	4800	0.12	1584	SG1C331MCB1124
	560	10×12.4	16	4720	0.12	1792	SG1C561MCB1124
	1000	10×12.4	18	4300	0.12	3200	SG1C102MCB1124
25(1E)	47	6.3×5.7	30	2800	0.12	235	SG1E470MCB6357
35(1V)	47	10×12.4	28	3800	0.12	410	SG1V470MCB1124
	100	10×12.4	29	2600	0.12	700	SG1V101MCB1124
	220	10×12.4	28	2600	0.12	1540	SG1V221MCB1124
50(1H)	100	10×12.4	27	3600	0.12	1000	SG1H101MCB1124
63(1J)	22	8×9.7	37	1700	0.12	300	SG1J220MCB8097