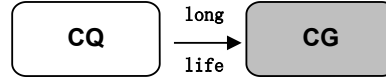


# CG Series

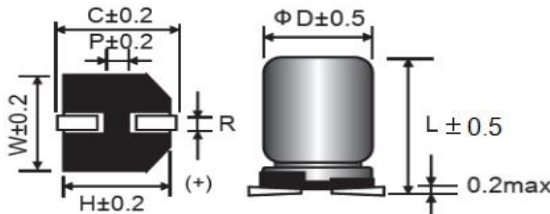
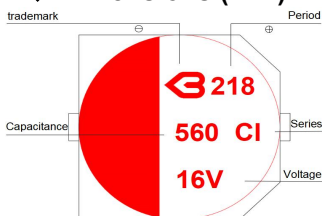
- Super low impedance, high ripple current, high voltage
- Load life of 15000~20000 hours at 105°C
- SMD type: lead free reflow soldering condition at 260°C peak correspondence
- RoHS Compliant



## ◆ Specifications

Items	Characteristics	
Category		
Temperature Range	-55 ~ +105°C	
Rated Voltage Range	6.3 ~ 63V	
Capacitance tolerance	±20%(M) (at 20°C,120Hz)	
Leakage Current	After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.	
tanδ Dissipation Factor	Less than or equal to the specified (at 20°C,120Hz)	
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤1.25
	Z(-55°C)/Z(+20°C)	≤1.25
Endurance	The specifications listed below shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 105°C.	
	Appearance	No significant damage
	Capacitance change	≒ ±20% of the initial value
	D.F.(tanδ)	≒ 150% of the specified value
	ESR	≒ 150% of the specified value
	Leakage current	≒ The specified value
Damp Heat (Steady State)	The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90%~ 95% RH.	
	Appearance	No significant damage
	Capacitance change	≒ ±20% of the initial value
	D.F.(tanδ)	≒ 150% of the specified value
	ESR	≒ 150% of the specified value
	Leakage current	≒ The specified value
(Surge Voltage)	Surge Voltage=Rated voltage * 1.15(V) The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30seconds	
	Appearance	No significant damage
	Capacitance change	≒ ±20% of the initial value
	D.F.(tanδ)	≒ 150% of the specified value
	ESR	≒ 150% of the specified value
	Leakage current	≒ The specified value
Resistance to soldering heat	After soldering the capacitor shall meet the specifications listed below.	
	Capacitance change	≒ ±10% of the initial value
	D.F.(tanδ)	≒ 130% of the specified value
	ESR	≒ 130% of the specified value
	Leakage current	≒ The specified value

## ◆ Dimensions (mm)



ΦD	6.3	6.3	8	8	10
L	6	9	10	12	12.5
W	6.6	6.6	8.3	8.3	10.3
H	6.6	6.6	8.3	8.3	10.3
C	7.3	7.3	9.0	9.0	11.0
R	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1	0.8~1.1
P	2.1	2.1	3.2	3.2	4.6

**CG Series**

◆ **Standard Ratings**

Rated voltage (W.V)	Capacitance (uF)	Size ΦD*L (mm)	ESR(mΩ /100KHz) at 20°C	Rated ripple current (mA rms/105°C)	Rated voltage (V)	Rated capacitance (uF)	Size ΦD*L (mm)	ESR(mΩ /100KHz) at 20°C	Rated ripple current (mA rms/105°C)
2.5	220	6.3*5.8	30	3000	25	47	6.3*5.8	40	2000
	330	6.3*5.8	30	3000		100	6.3*7.7	30	3000
	390	6.3*5.8	30	3000		150	8*9.7	25	3200
6.3	100	5*5.8	30	2500		220	8*10.5	20	3800
	220	5*5.8	25	2800		330	8*12.5	20	4000
	330	6.3*7.7	16	3500		330	10*10.5	20	4200
	470	6.3*7.7	15	4000		470	10*10.5	15	4500
10	47	5*5.8	60	2000		560	10*12.5	12	4800
	47	6.3*5.8	40	1800		680	10*12.5	12	4800
	100	5*5.8	40	2000		35	22	6.3*5.8	40
	100	6.3*5.8	40	2300	22		6.3*7.7	40	2500
	120	5*5.8	35	2000	47		6.3*5.8	40	2000
	120	6.3*5.8	30	2300	68		6.3*7.7	30	2500
	220	6.3*5.8	25	2600	100		6.3*7.7	25	2800
	270	6.3*5.8	20	2800	220		8*12.5	20	3600
	330	6.3*7.7	16	3200	330		10*12.5	20	4000
	470	6.3*7.7	15	4000	470		10*12.5	18	4200
	680	8*10.5	12	4800	680		10*16.5	15	5000
	820	8*10.5	10	5200	50		10	6.3*5.8	50
1000	8*12.5	10	5500	22		6.3*5.8	50	1600	
16	10	5*5.8	80	1000		33	6.3*7.7	45	2000
	22	5*5.8	80	1100		47	6.3*8	40	2000
	47	5*5.8	50	1200		68	8*10.5	35	2600
	100	5*5.8	30	1800		100	8*12.5	30	3200
	100	6.3*5.8	30	2300		150	10*12.5	25	3400
	100	6.3*7.7	25	2600		180	10*12.5	20	3800
	150	6.3*5.8	25	2800		220	10*16.5	20	4000
	220	6.3*5.8	25	3000		270	10*16.5	16	4500
	220	6.3*7.7	20	3500	63	10	6.3*5.8	50	1500
	270	6.3*7.7	15	4000		10	6.3*7.7	50	1600
	330	8*7.7	12	4200		22	6.3*7.7	40	1600
	470	8*9.7	12	4700		33	8*10.5	30	2500
	560	8*10.5	12	4800		47	8*12.5	25	2800
	560	8*12.5	12	5000		56	10*10.5	25	3000
680	8*12.5	12	5000	68		10*12.5	25	3200	
820	10*12.5	10	5200	100		10*12.5	25	3500	
1000	10*12.5	10	5400	180		10*16.5	20	4000	

◆ **Rated Ripple Current Coefficient**

Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
Coefficient	0.05	0.30	0.70	1.00