CG [Low ESR & High Ripple Current]

105°C, 2000 Hours and Ultra Low ESR

Conductive Polymer Solid Capacitors

ELECTRICAL CHARACTERISTICS

Operation Temperature Range	-55 ~ +105°C
Rated Voltage Range	2.5 ~ 25VDC
Rated Capacitance Range	33 ~ 2700μF
Capacitance Tolerance	± 20% at 120Hz, 20°C
Leakage Current (Max. 20°C)	I ≤ 0.2CV (μA) (After Rated Voltage Applied for 2 Minutes) I = Leakage Current (μA), C = Rated Capacitance (μF), V = Rated Voltage (V)
Dissipation Factor at 120Hz, 20°C	WV(V) 2.5 ~ 10V 16 ~ 25 D.F (%) 8 12
Low Temperature Stability	Impedance Ratio at 20°C (Max.) WV (V) 2.5 ~ 16V Impedance Z - 25°C / Z + 20°C ≤1.15 Z - 55°C / Z + 20°C ≤1.25 (Z: 100KHz)
Endurance	After the rated voltage has been applied at 105°C for 2000 hours, the capacitors shall meet the follow requirements. (a) Appearance: No Significant Damage (b) Capacitance Change: Within±20% of Initial Value (c) Dissipation Factor: Not Exceeding 150% of the Initial Specified Value (d) Equivalent Series Resistance: Not Exceeding 150% of the Initial Specified Value (e) Leakage Current: Not Exceeding the Initial Specified Value
Humidity Test	After subjected to 90 to 95% RH for 1000 hours at 60°C, the capacitors shall meet the requirements as Endurance.

DESCRIPTION

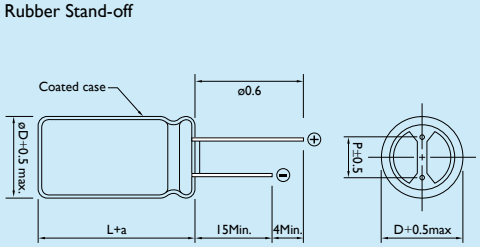
Long life for 2000 hours at 105°C, ideally suited for high quality and high reliability applications.

Featuring high CV products

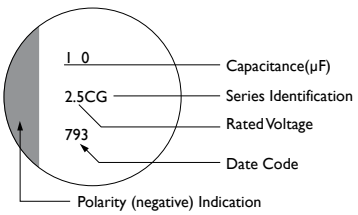
DIAGRAM OF DIMENSIONS

Unit: mm

Dø	P	a (Max.)
6	2.5	1.0
8	3.5	
10	5.0	



MARKING



CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

CAP. (μF)	RATED VOLTAGE WV (SURGE VOLTAGE WV)								
	2.5			4			6.3		
	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR
180									
270							6.3 x 10.5	3160	28.00
330							6.3 x 10.5	3190	28.00
390				6.3 x 10.5	3160	20.00	6.3 x 10.5	3190	28.00
470							8 x 11.5	5600	7.00
560	6.3 x 10.5	3160	20.00	6.3 x 10.5	3160	20.00			
680				8 x 11.5	5600	7.00			
820	6.3 x 10.5	3160	20.00				8 x 11.5	5600	7.00
							10 x 11.5	5050	7.00
1000	8 x 11.5	5600	7.00				10 x 11.5	5050	7.00
							10 x 12.5	5600	7.00
1200				8 x 11.5	5600	7.00	10 x 12.5	5600	7.00
				10 x 11.5	5050	7.00			
1500	8 x 11.5	5600	7.00	10 x 11.5	5050	7.00			
	10 x 11.5	5050	7.00	10 x 12.5	5600	7.00			
1800	10 x 12.5	5600	7.00	10 x 12.5	5600	7.00			
2700	10 x 12.5	5600	7.00						

Note: 1. Ripple Current: (mA/rms) 105°C, 100KHz
2. ESR: 100KHz / 20°C (mΩ)

CASE SIZE & PERMISSIBLE RIPPLE CURRENT OF STANDARD PRODUCTS

D x L: mm

CAP. (μF)	RATED VOLTAGE W V (SURGE VOLTAGE W V)								
	10			16			25		
	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR
33							8 x 11.5	2980	30.00
47							8 x 11.5	2980	30.00
56							8 x 11.5	2980	30.00
100				6.3 x 10.5	2820	25.00			
150				6.3 x 10.5	2820	25.00			
180	6.3 x 10.5	2820	25.00	8 x 11.5	4360	16.00			
220	6.3 x 10.5	2820	25.00	8 x 11.5	5000	11.00			
270				8 x 11.5	5000	11.00			
330	8 x 11.5	5600	7.00	8 x 11.5	5000	8.00			
				10 x 11.5	4000	10.00			
				10 x 12.5	6100	10.00			
390				10 x 12.5	5050	14.00			
470	8 x 11.5	5600	7.00	10 x 12.5	5050	14.00			
	10 x 11.5	4000	7.00						
560	10 x 12.5	5050	7.00	10 x 12.5	5050	14.00			
820	10 x 12.5	5050	7.00						

Note: 1. Ripple Current: (mA/rms) 105°C, 100KHz
2. ESR: 100KHz / 20°C (mΩ)