

CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

CP

8 mm height & Ultra low ESR

Series

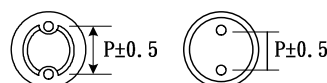
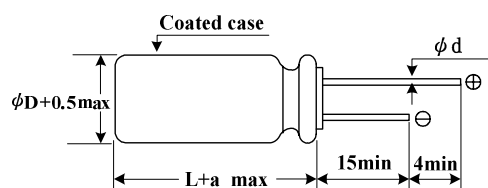
- Features: 105°C, 3000hrs, 8mm height & Ultra Low ESR
- Recommended Applications: Motherboard, DC/DC Converter , Adapter , SPS ,VCR , camcorder , DSC , PDA, HD Drive , MO Drive , DVD Drive, Navigation system, Portable Communication Devices
- Corresponding product to RoHS



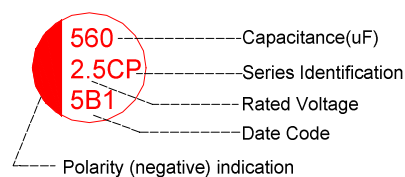
Specifications

Item	Characteristics		
Category Temperature Range	-55 ~ +105℃		
Rated Voltage Range	2.5 ~ 25VDC		
Rated Capacitance Range	10 ~ 1200 μ F		
Capacitance Tolerance	±20% at 120Hz , 20℃		
Surge Voltage	Rated voltage (V) x 1.15		
Leakage Current (MAX) (20℃)	I ≤ 0.2 CV or 300μA whichever is greater (After rated voltage applied for 2 minutes) I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V)		
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	WV	2.5 ~ 25V	
	tan δ	0.08	
Low Temperature Stability Impedance Ratio (MAX) (20℃)	WV	2.5 ~ 25V	
	Z(100KHz)		
	Z-25℃ / Z+20℃	≤ 1.15	
	Z-55℃ / Z+20℃	≤ 1.25	
Endurance	After applying rated voltage for 3000 hours at 105℃ , the capacitor shall meet the following requirement.		
	Appearance	No significant damage	
	Capacitance Change	Within ±20% of the initial value	
	Dissipation Factor	Not more than 150% of the initial specified value	
	Equivalent Series Resistance	Not more than 150% of the initial specified value	
	Leakage Current	Not more than the initial specified value	
	WV	2.5 ~ 6.3V	10~25V
Life	3000	2000	
Humidity Test	after subjecting 90 to 95% RH for 1000 hours at 60℃ . the capacitors shall meet the requirement as Endurance.		
Surge Voltage Test	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the requirement as Endurance.		
Failure Rate (MAX)	1% per 1,000 hours (confidence level 60% at 105℃)		

Diagram of Dimensions



Marking : case with red printing



Size code	$\phi D \times L$	P	ϕd	a
E08	6.3X8	2.5	0.6	1.0
G08	8X8	3.5	0.6	1.5

Multiplier for Ripple Current

Frequency (Hz)	$120 \leq F < 1K$	$1K \leq F < 10K$	$10K \leq F < 100K$	$100K \leq F \leq 500K$
Coefficient	0.05	0.3	0.7	1

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■ Dimensions, Rated Ripple Current, Equivalent Series Resistance

Capacitance (uF)	Rated Voltage								
	2.5V			4V			6.3V		
	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR
470							8x8	5600	8
560	6.3x8	4200	6	6.3x8	4200	7	6.3x8	4200	8
	8x8	5600	6	8x8	5600	7	8x8	5600	8
820	6.3x8	4200	6						
	8x8	5600	6				8x8	5600	8
1200	8x8	5600	6	8x8	5600	7			

Capacitance (uF)	Rated Voltage								
	10V			16V			25V		
	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR
10							6.3x8	1200	80
33							6.3x8	1650	35
							8x8	1980	35
56							8x8	1980	35
100				6.3x8	2820	25			
150	6.3x8	2820	25	6.3x8	2820	25			
180				6.3x8	2820	25			
220	6.3x8	2820	25						
270	6.3x8	2820	25	8x8	3500	11			
				8x8	5000	11			
330	8x8	3500	11	8x8	3500	11			
				8x8	5000	11			
470	8x8	3500	11						
560	8x8	5000	10						

☆ SIZE : ϕ DxL(mm) ☆ $\tan \delta$:20℃,120Hz. ☆Ripple Current:(mA/rms),105℃ .100KHz ☆ ESR(m Ω).20℃ .100KHz