

CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

CR

High ripple & low ESR
Series

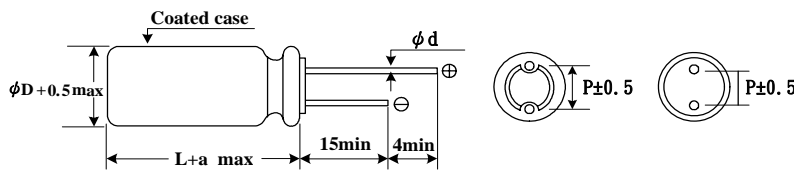
- Features: 105°C, 2000hrs, High Ripple & Low ESR
- Recommended Applications: Motherboard, DC/DC Converter, Adapter, SPS, VCR, Camcorder, DSC, PDA, HD Drive, MO Drive, DVD Drive, Navigation system, Portable Communication Devices
- Corresponding product to RoHS



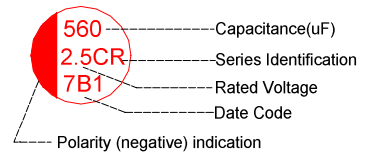
Specifications

Item	Characteristics	
Category Temperature Range	-55 ~ +105°C	
Rated Voltage Range	2.5 ~ 6.3VDC	
Rated Capacitance Range	470 ~ 2700 μF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Surge Voltage	Rated voltage (V) x 1.15	
Leakage Current (MAX) (20°C)	I ≤ 0.2 CV or 500 μA 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) (tanδ) (120Hz, 20°C)	WV	2.5 ~ 6.3V
	tan δ	0.10
Low Temperature Stability Impedance Ratio (MAX) (20°C)	Z(100KHz)	2.5 ~ 6.3V
	Z-25°C / Z+20°C	≤ 1.15
	Z-55°C / Z+20°C	≤ 1.25
Endurance	After applying rated voltage for 2000 hours at 105°C, 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
Humidity Test	after subjecting 90 to 95% RH for 1000 hours at 60°C, the capacitors shall meet the requirement as Endurance.	
	Surge Voltage Test	
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°C)		

Diagram of Dimensions



Marking : case with red printing



Size code	φD X L	P	φd	a
E08	6.3X8	2.5	0.6	1.0
G08	8X8	3.5	0.6	1.5
G1B	8X11.5	3.5	0.6	1.0

Multiplier for Ripple Current

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

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■ Dimensions, Rated Ripple Current, Equivalent Series Resistance

Capacitance (μ F)	Rated Voltage								
	2.5V			4V			6.3V		
	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR
470							6.3X8	4700	8
							8X8	5700	8
560	6.3X8	5000	7	6.3X8	5000	7	6.3X8	4700	8
	8X8	6100	7	8X8	6100	7	8X8	5700	8
				8X11.5	6100	7			
680							6.3X8	4700	8
							8x8	5700	8
	8X8	6100	7	8X8	6100	7	8X11.5	5700	7
				8X11.5	6100	7			
820	6.3X8	5000	7	8X8	6100	7	8X8	5700	8
	8X8	6100	7				8X11.5	5700	7
	8X11.5	6100	7				10X12.5	6100	7
1000	8X8	6100	7	8X8	6100	7			
				8X11.5	6100	7	8X11.5	5700	7
	8X11.5	6100	7	10X12.5	6100	6			
1200	8X8	6100	7	8X8	6100	7	8X11.5	5700	7
	8X11.5	6100	7	8X11.5	6100	7			
1500	8X11.5	6100	7	8X11.5	6100	7	10X12.5	5560	10
2700	10X12.5	5560	8						

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