

CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

CG

Ultra low ESR
Series

Adapter , SPS ,VCR , camcorder , DSC , PDA, HD Drive ,MO Drive ,
DVD Drive, Navigation system,Portable Communication Devices

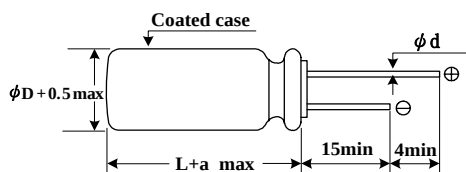


■ Corresponding product to RoHS

■ Specifications

Item	Characteristics		
Category Temperature Range	-55 ~ +105℃		
Rated Voltage Range	2.5 ~ 25VDC		
Rated Capacitance Range	10 ~ 2200 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) (tanδ) (120Hz ,20℃)	WV	2.5 ~ 10V	16~25V
	tan δ	0.08	0.12
Low Temperature Stability Impedance Ratio (MAX) (20℃)	WV Z(100KHz)		
	2.5 ~ 25V		
	Z-25℃ / Z+20℃		
	Z-55℃ / Z+20℃		
Endurance	After applying rated voltage for 2000 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	
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	ϕ D X L	P	ϕ d	a
B01	4X5.4	1.5	0.45	1.0
C01	5X5.4	2.0	0.45	1.0
C07	5X7	2.0	0.5	1.0
E01	6.3X5.4	2.5	0.45	1.0
E08	6.3X8	2.5	0.6	1.0
E1A	6.3X10.5	2.5	0.6	1.0
G1B	8X11.5	3.5	0.6	1.0
H1A	10X10.5	5.0	0.6	1.0
H1C	10X12.5	5.0	0.6	1.0

■ 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
120							6.3X5.4	1810	30
150							4X7	1810	30
							6.3X5.4	1810	30
220							5X7	3500	9
							6.3x5.4	1810	30
270							5X7	3500	11
330							5X7	3500	11
							6.3x5.4	1810	30
							6.3X10.5	3190	28
390							6.3X10.5	3190	28
							8X11.5	4770	12
470							6.3x6	3390	22
							6.3X10.5	3190	28
							8x11.5	5600	7
560	6.3X10.5	3160	20	6.3X10.5	3160	20	6.3X10.5	3190	28
680	6.3X10.5	3160	20	6.3X10.5	3160	20	8x11.5	5600	7
	8x11.5	5600	7						
820	6.3X10.5	3160	20	6.3X10.5	3160	20	8x11.5	5600	7
	8x11.5	5600	7	10X12.5	5600	7	10x12.5	5600	7
1000	8x11.5	5600	7	8x11.5	5600	7	8x11.5	5600	7
							10X12.5	5600	7
1200	8x11.5	5600	7	8x11.5	5600	7	8x11.5	5600	7
							10X10.5	5050	7
							10X12.5	5600	7
1500							10X10.5	5050	7
	8x11.5	5600	7	8x11.5	5600	7	10X12.5	5600	7
1800	10x12.5	5600	7	10X12.5	5600	7	10X12.5	5600	7
2200	10x12.5	5600	7	10X12.5	5600	7			

Capacitance (uF)	Rated Voltage								
	10V			16V			20V		
	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR
10	4X5.4	1200	45						
22				6.3X5.4	2200	30			
33	5x5.4	1670	45	5X5.4	2070	45			
47				6.3X5.4	1650	35			
				6.3X7	2610	25			
68							8X11.5	2980	30
100				6.3X5.4	2490	24	8X11.5	3320	30
				6.3X10.5	4680	10			
120				6.3X10.5	2820	25			
150				6.3X10.5	2820	25			
180				6.3X10.5	2820	25			
	8x11.5	5600	7	8X11.5	4360	16			
				8X11.5	5000	11			
220	6.3X10.5	2820	25	6.3X10.5	2820	25			
				8X11.5	5000	11			
270	6.3X10.5	2820	25	6.3X10.5	3100	20			
	8x11.5	5600	7	8X11.5	5000	11			
330	6.3X10.5	2820	25	8X11.5	5000	8			
				10X12.5	6100	10			
390	8x11.5	5600	7	10X12.5	6100	10			
470	8x11.5	5600	7	8X11.5	5000	11			
				10X12.5	6100	10			
560	8x11.5	5600	7	10X12.5	6100	10			
	10X12.5	6100	7						
680	10X12.5	6100	7	10X12.5	6100	10			
820	8x11.5	5600	7	10X12.5	5000	8			
1000	10X12.5	6100	7						
1200	10X12.5	6100	7						

☆ SIZE : φ DxL(mm) ☆tan δ :20℃,120Hz. ☆Ripple Current:(mA/rms),105℃ .100KHz ☆ ESR(mΩ).20℃ .100KHz

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■ Dimensions, Rated Ripple Current, Equivalent Series Resistance

Capacitance (uF)	Rated Voltage								
	25V								
	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR	SIZE	RIPPLE	ESR
10	6.3X8	1200	80						
33	6.3X8	1650	35						
	6.3X10.5	1980	35						
	8X11.5	2980	30						
47	6.3X10.5	1980	35						
	8X11.5	2980	30						
56	6.3X10.5	1980	35						
	8X11.5	2980	30						
100	8X11.5	2980	30						
	10X12.5	2980	30						
	10X12.5	4320	30						
150	10X12.5	4320	30						

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