

CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

CF

Large capacitance Series

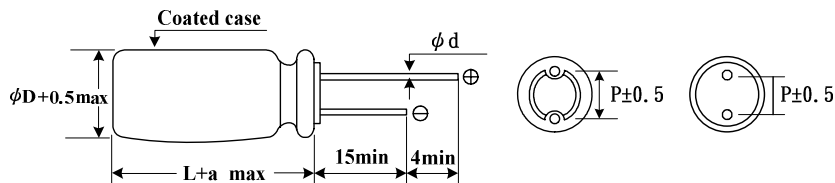
- Features: 105°C, 2000hrs, Super Low ESR & large capacitance
- Recommended Applications: Motherboard, DC/DC Converter, Adapter, SPS, VCR, camcorder, DSC, PDA, HD Drive, MO Drive, DVD Drive, Navigation system, Portable Communication Devices
- Corresponding product to RoHS



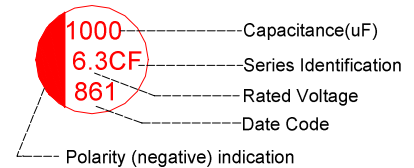
Specifications

Item	Characteristics	
Category Temperature Range	-55 ~ +105°C	
Rated Voltage Range	2.5 ~ 35VDC	
Rated Capacitance Range	22 ~ 1800 μ F	
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C	
Surge Voltage	Rated voltage (V) x 1.15	
Leakage Current (MAX) (20°C)	Less than or equal to the value of Table. (After rated voltage applied for 2 minutes)	
Dissipation Factor (MAX) (tan δ) (120Hz, 20°C)	Less than or equal to the value of Table.	
Low Temperature Stability Impedance Ratio (MAX) (20°C)	WV	6.3 ~ 35V
	Z(100KHz)	
	Z-25°C / Z+20°C	≤ 1.15
Endurance	Z-55°C / Z+20°C	≤ 1.25
	After applying rated voltage for 2000 hours at 105°C, the capacitor shall meet the following requirement.	
	Appearance	No significant damage
Humidity Test	Capacitance Change	Within $\pm 20\%$ 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
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)	0.5% per 1,000 hours (confidence level 60% at 105°C)	

Diagram of Dimensions



Marking : case with red printing



Size code	$\phi D \times L$	P	ϕd	a
C09	5X9	2	0.5	1.0
E08	6.3X8	2.5	0.6	1.0
E1A	6.3X10.5	2.5	0.6	1.0
G08	8X8	3.5	0.6	1.5
G10	8X10	3.5	0.6	1.5
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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STANDARD RATINGS

Size code	WV (Vdc)	Cap	$\tan \delta$	ESR	Ripple current	Leakage current
		(μF)	(120Hz, 20°C)	(m Ω max/20°C, 100KHz)	105°C, 100KHz, (mA/rms)	(μA max)
C09	6.3	330	0.08	25	2400	300
		390	0.08	25	2400	300
	2.5	560	0.08	7	4350	300
E08	32	22	0.08	40	990	300
E1A	25	68	0.08	35	1500	340
	6.3	680	0.08	28	2800	857
G08	32	82	0.08	35	1200	525
	25	56	0.08	30	1500	300
		120	0.08	35	1500	600
	16	330	0.08	12	3000	1056
	10	560	0.08	10	3000	1120
		680	0.08	10	3000	1360
	6.3	1000	0.08	9	3000	1260
G10	32	100	0.08	35	1600	640
	25	150	0.08	35	1980	750
	10	680	0.08	14	3500	1360
	6.3	820	0.08	7	4000	1033
G1B	35	100	0.08	25	1760	700
	32	120	0.08	30	1800	768
	25	180	0.08	30	2280	900
	16	470	0.08	12	4000	1504
	10	820	0.08	12	4000	1640
	6.3	1000	0.08	10	4860	1260
		1200	0.08	10	4860	1512
		1500	0.08	10	4860	1890
H1A	32	220	0.08	30	1800	1408
	25	180	0.08	30	3000	900
	20	180	0.08	30	3000	720
	10	560	0.08	7	5000	1120
	6.3	1500	0.08	7	5000	1890
H1C	35	270	0.08	30	2400	1890
		100	0.08	30	2400	700
	32	180	0.08	30	2400	1152
		470	0.08	30	2050	2350
	25	390	0.08	30	3000	1950
		330	0.08	30	3000	1650
		220	0.08	30	3000	1100
		330	0.08	30	3000	1320
	16	820	0.08	11	4000	2624
	10	1200	0.08	12	4360	2400
	6.3	1500	0.08	7	5000	1890
		1800	0.08	7	5000	2268

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