CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

CS

Large capacitance & Long Life & High Voltage Series

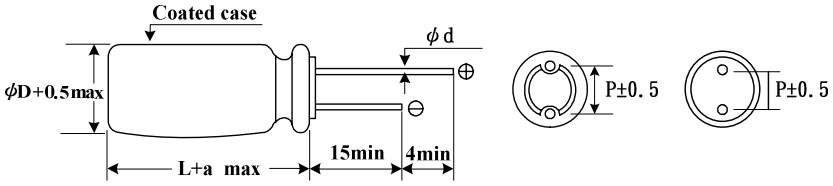
■ Features: 105℃,5000hrs & Large capacitance & Long Life & High Voltage
■ Recommended Applications : LED Driver , LED Power Supply.

■ Corresponding product to RoHS

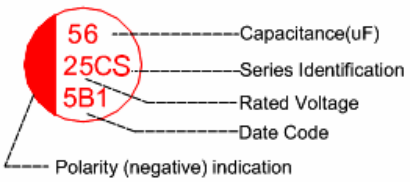
■ Specifications

Item	Characteristics
Category Temperature Range	-55 ~ +105℃
Rated Voltage Range	25 ~50VDC
Rated Capacitance Range	56 ~ 390 μF
Capacitance Tolerance	±20% at 120Hz , 20℃
Surge Voltage	Rated voltage (V) x 1.15(at room temperature or at 25℃)
Leakage Current (MAX) (20℃)	Less than or equal to the value of Table. (After rated voltage applied for 2 minutes)
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	Less than or equal to the value of Table.
Low Temperature Stability Impedance Ratio (MAX) (20℃)	WV / Z(100KHz): 25~50V Z-25℃ / Z+20℃: ≦1.15 Z-55℃ / Z+20℃: ≦1.25
Endurance	After applying rated voltage for 5000 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)	0.5% per 1,000 hours (confidence level 60% at 105℃)

■ Diagram of Dimensions



■ Marking : case with red printing



Size code	φD X L	P	φd	a
G1B	8X11.5	3.5	0.6	1.0
H1C	10X12.5	5.0	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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■STANDARD RATINGS

Size code	WV (Vdc)	Cap	tan δ	ESR	Ripple current	Leakage current
		(μF)	(120Hz ,20℃)	(mΩmax/20℃,100KHz)	105℃,100KHz,(mA/rms)	(μA max)
G08	35	56	0.12	29	1500	392
		100	0.12	29	1500	700
G1B	50	56	0.12	25	1760	560
	35	150	0.12	25	1760	1050
	25	220	0.12	25	1760	1100
		270	0.12	25	1760	1350
	20	390	0.12	25	1760	1560
H1C	50	100	0.12	25	2050	2350
		82	0.12	25	2050	820
	35	270	0.12	25	2050	1890
	25	330	0.12	25	2050	1650
		390	0.12	25	2050	1950
		470	0.12	25	2050	2350

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