TEAPO

Radial Type Conductive Polymer Aluminum Solid Capacitors

FS

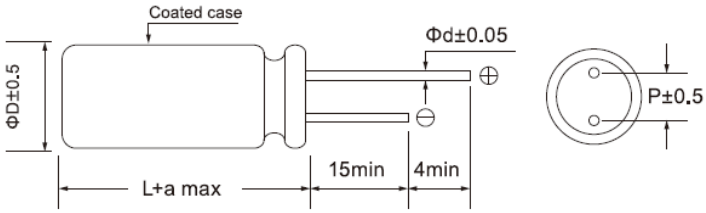
Large capacitance & Long Life & High Voltage Series

- Endurance: 105℃,5000hrs
- Recommended Applications:Large capacitance & Long Life & High Voltage Series
- Corresponding product to RoHS

Specifications

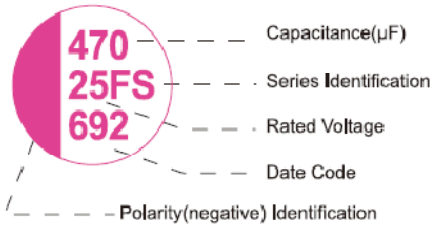
Item	Characteristics
Category Temperature Range	-55 ~ +105℃
Rated Voltage Range	20~50VDC
Rated Capacitance Range	39~680 μF
Capacitance Tolerance	± 20 % (120Hz , 20℃)
Surge Voltage	Rated voltage（V) x 1.15
Leakage Current (20℃)	I≦0.2CV or 300(μA)whichever is greater(After rated voltage applied for 2 minutes) I： Leakage Current (μA) C：Capacitance(μF) V： Rated Voltage Range(VDC)
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	WV: 20~50 tan δ: 0.12
Temperature characteristic Impedance ratio (MAX)	WV / Z(100KHz): 20 ~ 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 1000 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



尺寸代码	ΦD x L	P	Φd	a
G08	8x8	3.5	0.6	1.5
G1B	8x11.5	3.5	0.6	1.0
H1B	10x11.5	5.0	0.6	1.0
H1C	10x12.5	5.0	0.6	1.0

Marking : case with red printing



Multiplier for Ripple Current

Frequency(HZ)	120≦F＜1K	1K≦F＜10K	10K≦F＜100K	100K≦F≦500K
Coefficient	0.05	0.30	0.70	1.00

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■Dimensions,Rated Ripple Current,Equivalent Series Resistance

Rated (Surge) Voltage(V)	Capacitance (μF)	SIZE ΦDxL(mm)	RIPPLE (mA/rms,105℃ 100KHz)	ESR (mΩ,20℃ 100KHz)
20(23)	390	8x11.5	1760	25
	680	10x11.5	2800	25
25(28.75)	150	8x11.5	1760	25
	220	8x11.5	1760	25
	270	8x11.5	1760	25
	330	10x12.5	2050	25
	390	10x12.5	2050	25
	470	10x12.5	2050	25
35(40.25)	39	8x8	1500	50
	56	8x8	1500	50

Rated (Surge) Voltage(V)	Capacitance (μF)	SIZE ΦDxL(mm)	RIPPLE (mA/rms,105℃ 100KHz)	ESR (mΩ,20℃ 100KHz)
35(40.25)	100	8x8	1500	50
		8x11.5	1760	35
	150	8x11.5	1760	35
	220	8x11.5	1760	35
	270	10x12.5	2050	25
50(57.5)	47	8x11.5	1760	38
	56	8x11.5	1760	38
	82	10x12.5	2050	35
	100	10x12.5	2050	35