TEAPO

Radial Type Conductive Polymer Aluminum Solid Capacitors

FT

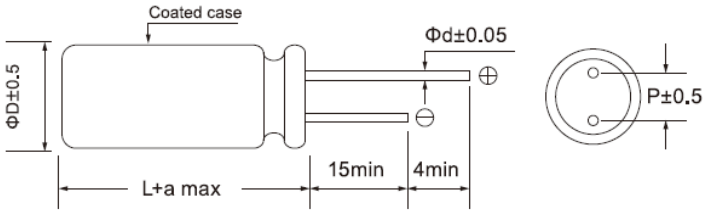
125℃/2000hrs&Low ESR Series

- Endurance:125℃,2000hrs
- Recommended Applications: High temperature resistant products
- Corresponding product to RoHS

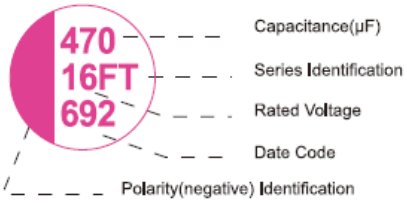
Specifications

Item	Characteristics
Category Temperature Range	-55 ~ +125℃
Rated Voltage Range	6.3~25VDC
Rated Capacitance Range	10~ 1000μF
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: 6.3~25 tan δ: 0.12
Temperature characteristic Impedance ratio (MAX)	WV / Z(100KHz): 6.3 ~ 25V Z-25℃ / Z+20℃: ≦1.15 Z-55℃ / Z+20℃: ≦1.25
Endurance	After applying rated voltage for 2000 hours at 125℃, 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)	1%per 1,000 hours(confidence level 60% at 105℃)

Diagram of Dimensions



Marking : case with red printing



SIZE	ΦD x L	P	Φd	a
E06	6.3x6	2.5	0.5	1.5
E08	6.3x8	2.5	0.5or0.6	1.0
G08	8x8	3.5	0.6	1.5
G1B	8x11.5	3.5	0.6	1.0
G15	8x15	3.5	0.6	1.5
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	0.30	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,100kHz)		ESR (mΩ,20℃ 100kHz)	LC (μA max/2min)
			Tx：125℃	Tx：105℃		
6.3（7.2）	180	6.3x6	537	1700	45	300
	220	6.3x6	537	1700	45	300
	270	6.3x6	810	2560	45	340
	330	6.3x6	810	2560	45	415
	470	6.3x8	810	2560	35	592
		8x8	810	2560	15	592
	560	8x8	1332	4210	15	705
	680	8x8	1721	5440	15	856
	820	8x8	1721	5440	15	1033
	1000	8x11.5	1721	5440	15	1260
10（11.5）	180	6.3x8	537	1700	45	360
	220	8x8	810	2560	35	440
	270	8x8	810	2560	35	540
	330	6.3x8	537	1700	45	660
		8x8	810	2560	35	660
	470	8x8	810	2560	35	940
	560	8x8	810	2560	35	1120
	680	8x11.5	1332	4210	15	1360
16（18.4）	82	6.3x8	512	1620	50	300
	100	6.3x8	512	1620	50	320
	120	6.3x8	670	2120	50	384
	150	6.3x8	670	2120	50	480
	180	8x8	1151	3640	20	576
	220	8x8	1151	3640	20	704
	270	8x11.5	1493	4720	20	864
	330	8x11.5	1151	3640	20	1056
		10x12.5	1493	4720	16	1056
	470	10x12.5	1493	4720	16	1504
20(23)	47	6.3x8	458	1450	60	300
	56	6.3x8	598	1890	60	300
	68	6.3x8	598	1890	60	300
	82	6.3x8	1050	3320	60	328
	100	8x11.5	1050	3320	24	400
	120	8x11.5	1367	4320	24	480
	150	8x11.5	1367	4320	24	600
25(28.75)	10	6.3x8	458	1450	60	300
	22	6.3x8	458	1450	60	300
	33	6.3x8	458	1450	60	300
	47	6.3x8	598	1890	60	300
	56	6.3x8	598	1890	60	300
	68	6.3x8	1050	3320	60	340
	82	6.3x8	1050	3320	60	410
	100	8x11.5	1050	3320	24	500
		10x12.5	1367	4320	20	500
	150	8x11.5	1367	4320	24	750
	220	8x11.5	1050	3320	24	1100
	270	8x15	1367	4320	20	1350
	330	10x12.5	1367	4320	20	1650