

Jamicon Series : FH

Teapo Series : FH Long life & low ESR Series

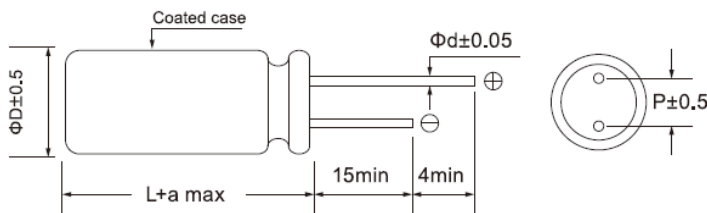
- Endurance:105°C,5000hrs
- Recommended Applications: Long life & Ultra low ESR Series
- Corresponding product to RoHS



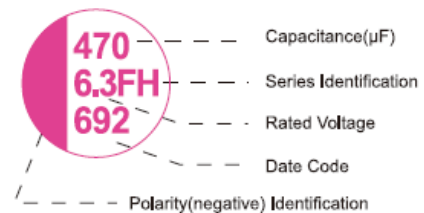
Specifications

Item	Characteristics	
Category Temperature Range	-55 ~ +105°C	
Rated Voltage Range	2.5~16VDC	
Rated Capacitance Range	100~ 1800 μF	
Capacitance Tolerance	± 20 % (120Hz , 20°C)	
Surge Voltage	Rated voltage (V) x 1.15	
Leakage Current (20°C)	I ≤ 0.2CV or 300(μ A) whichever is greater (After rated voltage applied for 2 minutes) I : Leakage Current (μ A) C : Capacitance(μ F) V : Rated Voltage Range(VDC)	
Dissipation Factor (MAX) (tan δ) (120Hz ,20°C)	WV	2.5~16
	tan δ	0.12
Temperature characteristic Impedance ratio (MAX)	Z(100KHz) / WV	2.5 ~ 16V
	Z-25°C / Z+20°C	≤ 1.15
	Z-55°C / Z+20°C	≤ 1.25
Endurance	After applying rated voltage for 5000 hours at 105°C , 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
Humidity Test	after subjecting 90 to 95% RH for 1000 hours at 60°C , 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°C)	

Diagram of Dimensions



Marking : case with red printing



SIZE	Φ D x L	P	Φ d	a
E01	6.3x5.4	2.5	0.45	1.0
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
H1C	10x12.5	5.0	0.6	1.0
G15	8x15	3.5	0.6	1.5

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 (μ F)	SIZE Φ DxL(mm)	RIPPLE (mA/rms,105°C 100kHz)	ESR (m Ω ,20°C 100kHz)
2.5(2.87)	330	6.3x8	3500	8
	560	6.3x5.4	3000	16
		6.3x8	3500	7
		8x8	5000	7
	820	8x8	5000	7
4(4.6)	560	6.3x8	3500	8
		8x8	6100	8
	680	8x11.5	6100	7
6.3(7.25)	1500	10x12.5	6100	7
	220	6.3x5.4	1700	45
		6.3x8	3500	10
	470	6.3x8	3500	10
		8x8	3500	10
	560	6.3x8	3500	10
	820	8x11.5	3500	8
	1200	8x11.5	3500	8
	1500	10x12.5	4500	8
1800	10x12.5	5000	8	
10(11.5)	220	6.3x8	2500	15
	270	6.3x8	2800	15

Rated (Surge) Voltage(V)	Capacitance (μ F)	SIZE Φ DxL(mm)	RIPPLE (mA/rms,105°C 100kHz)	ESR (m Ω ,20°C 100kHz)
10(11.5)	330	8x11.5	3500	10
	560	8x11.5	5000	10
	680	8x11.5	5000	10
16(18.4)	100	6.3x5.4	2490	24
		6.3x8	2490	30
	180	6.3x8	2490	25
	220	8x11.5	3000	15
		6.3x8	2500	24
			3500	15
	270	8x8	3500	15
		8x11.5	3500	15
		8x8	3500	15
	330	8x8	3500	15
		8x11.5	3500	15
	470	10x12.5	4200	15
		8x11.5	3500	12
	560	8x11.5	3500	12
		10x12.5	6100	10
680	8x15	3500	11	
		4000	11	
	10x12.5	4000	11	
1000	10x12.5	4000	11	