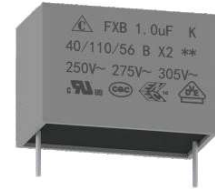


Metallized Polypropylene Film AC Capacitor For Capacitive Divider (Class X2) Temperature Humidity Bias (THB) AC Applications

FXB series

Overview

The FXB series is constructed of metallized polypropylene film encapsulated with self-extinguishing resin in a box of material meeting the requirement of UL94V-0.



Applications

- Energy meter, capacitive power supplies.
- Specifically designed for applications in serial with the 110Vac ~ 240Vac main.

Features

- High temperature (110°C)
- Self-healing property
- Over voltage stress withstanding
- Flame-retardant plastic case and resin
- High stability of capacitance under severe ambient condition, such as high temperature and high humidity

Specifications

Items	Characteristics
Reference Standard	IEC 60384-14, EN 60384-14, UL 60384-14
Climatic Category	40/110/56 IEC 60068-1
Passive Flammability Class	B
Operating Temperature Range	-40°C to +110°C
Capacitance Range	0.01μF to 2.2μF
Rated Voltage	250Vac ~ 305Vac
Capacitance Tolerance	±10% or ±20% at +25°C
Dissipation Factor (DF)	≤ 0.001 (0.1%) at 1kHz at +25°C
Test Voltage Between Terminals	1312VDC for 60s or 2000VDC 2s (terminal to terminal)
Test Voltage Terminal to Case	2050Vac 50 Hz for 60s at +25°C
Insulation Resistance	>15,000 MΩ (C≤0.33uF)at 100VDC 1 minute at +25°C >5,000 s (C > 0.33uF)at 100VDC 1 minute at +25°C
Life Expectancy	100,000 hours at Un @ Hot-Spot temperature T=+ 85°C
Protection	Solvent resistant plastic case UL94 V-0 Thermosetting resin sealing UL94 V-0 compliant
Installation	Any position
Leads	Tinned copper wires or Copper-clad Steel Wire
Packaging	Packed in cardboard boxes with protection for the leads
RoHS Compliant	Compliant with the restricted substance requirements of Directive 2011/65/EU
Storage Conditions	Storage time: ≤ 24 months from the date marked on the label package Temperature and relative humidity should be -10°C ~ +40°C and not more than 75%RH. RH ≤ 85% for 30 days randomly distributed throughout the year
Humidity Test	Test conditions & performance: Temperature: +40°C±2°C Relative humidity(RH) :93% ±2% Test duration : 56 days C _R ≤ 1μF, Capacitance change : ≤±5%, DF change (Δtgδ):≤80 X 10 ⁻⁴ at 1KHz C _R > 1μF, Capacitance change : ≤±5%, DF change (Δtgδ):≤50 X 10 ⁻⁴ at 1KHz Insulation resistance: ≥50% of initial limit
Endurance Test	Test conditions & performance: Temperature: +110°C ±2°C Voltage applied:1.25 X V _R (a.c.) +1000Vac/0.1s/h Test duration : 1000 hours C _R ≤1μF, Capacitance change : ≤±10%, DF change (Δtgδ):≤80 X 10 ⁻⁴ at 1KHz C _R > 1μF, Capacitance change : ≤±10%, DF change (Δtgδ):≤50 X 10 ⁻⁴ at 1KHz Insulation resistance: ≥50% of initial limit
THB Test (Damp heat test with loading)	Test conditions & performance: Temperature: +85°C ±2°C Relative humidity(RH) :85% ±2% Loading Voltage: 240Vac (50Hz/60Hz) ; Test duration : 1000 hours Capacitance change : ≤±10%

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■ Technical data

Vac	Cap	Dimensions			Lead Spacing	Peak	dv/dt	Lead Wire	Part Number
	Value	W	H	T	P	Current			
	µF	mm	mm	mm	mm	A			
305	0.10	18.0	13.5	7.5	15.0	40	400	0.8	FXB30K104E++2EL5
305	0.15	18.0	14.5	8.5	15.0	60	400	0.8	FXB30K154E++2EL5
305	0.22	18.0	16.0	10.0	15.0	88	400	0.8	FXB30K224E++2EL5
305	0.33	18.0	19.0	11.0	15.0	132	400	0.8	FXB30K334E++2EL5
305	0.47	26.0	20.0	11.0	22.5	94	200	0.8	FXB30K474F++2FL5
305	0.56	26.0	20.0	11.0	22.5	112	200	0.8	FXB30K564F++2FL5
305	0.68	26.0	22.0	12.0	22.5	136	200	0.8	FXB30K684F++2FL5
305	0.82	26.0	22.0	12.0	22.5	164	200	0.8	FXB30K824F++2FL5
305	1.00	26.0	23.0	13.0	22.5	200	200	0.8	FXB30K105F++2FL5
305	1.00	32.0	22.0	13.0	27.5	100	100	0.8	FXB30K105G++2GL5
305	1.20	32.0	28.0	14.0	27.5	120	100	0.8	FXB30K125G++2GL5
305	1.50	32.0	28.0	14.0	27.5	150	100	0.8	FXB30K155G++2GL5
305	1.80	32.0	33.0	18.0	27.5	180	100	0.8	FXB30K185G++2GL5
305	2.00	32.0	33.0	18.0	27.5	200	100	0.8	FXB30K205G++2GL5
305	2.20	32.0	33.0	18.0	27.5	220	100	0.8	FXB30K225G++2GL5

* Customized products are available by request, contact us for more details.
* Specification are subject to change, please refer to approved data sheets.

