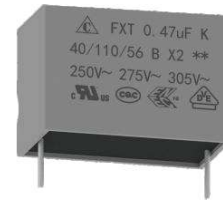


Metallized Polypropylene Film Capacitor (Interference Suppressor Class X2) Temperature Humidity Bias (THB) AC Applications

FXT series

Overview

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



Applications

- Used in electromagnetic interference suppression in across-the-line applications which required X2 safety classification.
- Suitable for use in situations where failure of the capacitor would not lead to danger of electric shock.

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 45.0μF |
| 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 ≤1 μF, Capacitance change : ≤±5%, DF change (Δtgδ):≤80 X 10 ⁻⁴ at 1KHz C _R >1 μF, 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 ≤1 μF, Capacitance change : ≤±10%, DF change (Δtgδ):≤80 X 10 ⁻⁴ at 1KHz C _R >1 μF, 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 | Vdc | Cap | Dimensions | | | Lead Spacing | Peak | dv/dt | Lead Wire | Part Number |
|-----|-----|-------|------------|------|------|--------------|---------|-------|-----------|------------------|
| | | Value | W | H | T | P | Current | | | |
| | | μF | mm | mm | mm | mm | A | | | |
| 305 | 630 | 0.010 | 13.0 | 11.0 | 5.0 | 10.0 | 5.0 | 500 | 0.6 | FXT30K103C++2CL5 |
| 305 | 630 | 0.022 | 13.0 | 11.0 | 5.0 | 10.0 | 11.0 | 500 | 0.6 | FXT30K223C++2CL5 |
| 305 | 630 | 0.033 | 13.0 | 11.0 | 5.0 | 10.0 | 16.5 | 500 | 0.6 | FXT30K333C++2CL5 |
| 305 | 630 | 0.047 | 13.0 | 12.0 | 6.0 | 10.0 | 23.5 | 500 | 0.6 | FXT30K473C++2CL5 |
| 305 | 630 | 0.068 | 13.0 | 12.0 | 6.0 | 10.0 | 34.0 | 500 | 0.6 | FXT30K683C++2CL5 |
| 305 | 630 | 0.082 | 13.0 | 12.0 | 6.0 | 10.0 | 41.0 | 500 | 0.6 | FXT30K823C++2CL5 |
| 305 | 630 | 0.100 | 13.0 | 12.0 | 6.0 | 10.0 | 50.0 | 500 | 0.6 | FXT30K104C++2CL5 |
| 305 | 630 | 0.150 | 13.0 | 14.0 | 8.0 | 10.0 | 75.0 | 500 | 0.6 | FXT30K154C++2CL5 |
| 305 | 630 | 0.047 | 18.0 | 12.0 | 6.0 | 15.0 | 18.8 | 400 | 0.6 | FXT30K473E++2EL5 |
| 305 | 630 | 0.068 | 18.0 | 12.0 | 6.0 | 15.0 | 27.2 | 400 | 0.6 | FXT30K683E++2EL5 |
| 305 | 630 | 0.082 | 18.0 | 12.0 | 6.0 | 15.0 | 32.8 | 400 | 0.6 | FXT30K823E++2EL5 |
| 305 | 630 | 0.10 | 18.0 | 12.0 | 6.0 | 15.0 | 40.0 | 400 | 0.6 | FXT30K104E++2EL5 |
| 305 | 630 | 0.15 | 18.0 | 12.0 | 6.0 | 15.0 | 60.0 | 400 | 0.6 | FXT30K154E++2EL5 |
| 305 | 630 | 0.15 | 18.0 | 13.0 | 7.0 | 15.0 | 60.0 | 400 | 0.6 | FXT30K154E++2EL5 |
| 305 | 630 | 0.22 | 18.0 | 14.0 | 8.0 | 15.0 | 88.0 | 400 | 0.8 | FXT30K224E++2EL5 |
| 305 | 630 | 0.27 | 18.0 | 14.5 | 8.5 | 15.0 | 108.0 | 400 | 0.8 | FXT30K274E++2EL5 |
| 305 | 630 | 0.33 | 18.0 | 16.0 | 10.0 | 15.0 | 132.0 | 400 | 0.8 | FXT30K334E++2EL5 |
| 305 | 630 | 0.47 | 18.0 | 19.0 | 11.0 | 15.0 | 188.0 | 400 | 0.8 | FXT30K474E++2EL5 |
| 305 | 630 | 0.56 | 18.0 | 18.0 | 11.0 | 15.0 | 224.0 | 400 | 0.8 | FXT30K564E++2EL5 |
| 305 | 630 | 0.68 | 18.0 | 22.0 | 12.5 | 15.0 | 272.0 | 400 | 0.8 | FXT30K684E++2EL5 |
| 305 | 630 | 0.82 | 18.0 | 22.0 | 12.5 | 15.0 | 328.0 | 400 | 0.8 | FXT30K824E++2EL5 |
| 305 | 630 | 0.22 | 26.0 | 16.5 | 7.0 | 22.5 | 44.0 | 200 | 0.8 | FXT30K224F++2FL5 |
| 305 | 630 | 0.27 | 26.0 | 16.5 | 7.0 | 22.5 | 54.0 | 200 | 0.8 | FXT30K274F++2FL5 |
| 305 | 630 | 0.33 | 26.0 | 17.0 | 8.5 | 22.5 | 66.0 | 200 | 0.8 | FXT30K334F++2FL5 |
| 305 | 630 | 0.47 | 26.0 | 19.0 | 10.0 | 22.5 | 94.0 | 200 | 0.8 | FXT30K474F++2FL5 |
| 305 | 630 | 0.56 | 26.0 | 19.0 | 10.0 | 22.5 | 112.0 | 200 | 0.8 | FXT30K564F++2FL5 |
| 305 | 630 | 0.68 | 26.0 | 20.0 | 11.0 | 22.5 | 136.0 | 200 | 0.8 | FXT30K684F++2FL5 |
| 305 | 630 | 0.82 | 26.0 | 20.0 | 11.0 | 22.5 | 164.0 | 200 | 0.8 | FXT30K824F++2FL5 |
| 305 | 630 | 1.00 | 26.0 | 22.0 | 12.0 | 22.5 | 200.0 | 200 | 0.8 | FXT30K105F++2FL5 |
| 305 | 630 | 1.20 | 26.0 | 23.0 | 13.0 | 22.5 | 240.0 | 200 | 0.8 | FXT30K125F++2FL5 |
| 305 | 630 | 1.50 | 26.0 | 24.0 | 14.0 | 22.5 | 300.0 | 200 | 0.8 | FXT30K155F++2FL5 |
| 305 | 630 | 1.50 | 26.0 | 25.0 | 15.0 | 22.5 | 300.0 | 200 | 0.8 | FXT30K155F++2FL5 |

EMI Capacitors

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



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■ Technical data

| Vac | Vdc | Cap | Dimensions | | | Lead Spacing | Peak | dv/dt | Lead Wire | Part Number |
|-----|-----|-------|------------|------|------|--------------|---------|-------|-----------|------------------|
| | | Value | W | H | T | P | Current | | | |
| | | µF | mm | mm | mm | mm | A | | | |
| 305 | 630 | 1.0 | 32.0 | 20.0 | 11.0 | 27.5 | 150 | 150 | 0.8 | FXT30K105G++2GL5 |
| 305 | 630 | 1.2 | 32.0 | 22.0 | 13.0 | 27.5 | 180 | 150 | 0.8 | FXT30K125G++2GL5 |
| 305 | 630 | 1.5 | 32.0 | 24.5 | 13.0 | 27.5 | 225 | 150 | 0.8 | FXT30K155G++2GL5 |
| 305 | 630 | 2.2 | 32.0 | 28.0 | 14.0 | 27.5 | 330 | 150 | 0.8 | FXT30K225G++2GL5 |
| 305 | 630 | 3.3 | 32.0 | 33.0 | 18.0 | 27.5 | 495 | 150 | 0.8 | FXT30K335G++2GL5 |
| 305 | 630 | 4.7 | 32.0 | 37.0 | 22.0 | 27.5 | 705 | 150 | 0.8 | FXT30K475G++2GL5 |
| 305 | 630 | 4.7 | 42.5 | 32.0 | 19.0 | 37.5 | 470 | 100 | 1.0 | FXT30K475K++2KL5 |
| 305 | 630 | 6.8 | 42.5 | 44.0 | 24.0 | 37.5 | 680 | 100 | 1.0 | FXT30K685K++2KL5 |
| 305 | 630 | 10.0 | 42.5 | 45.0 | 30.0 | 37.5 | 1000 | 100 | 1.0 | FXT30K106K++2KL5 |
| 305 | 630 | 12.0 | 42.5 | 45.0 | 30.0 | 37.5 | 1200 | 100 | 1.0 | FXT30K126K++2KL5 |
| 305 | 630 | 12.0 | 57.5 | 45.0 | 30.0 | 52.5 | 1200 | 100 | 1.2 | FXT30K126K++2KL5 |
| 305 | 630 | 15.0 | 42.5 | 45.0 | 30.0 | 37.5 | 1500 | 100 | 1.0 | FXT30K156K++2KL5 |
| 305 | 630 | 15.0 | 57.5 | 45.0 | 30.0 | 52.5 | 1500 | 100 | 1.2 | FXT30K156M++2ML5 |
| 305 | 630 | 18.0 | 57.5 | 45.0 | 30.0 | 52.5 | 1800 | 100 | 1.2 | FXT30K186M++2ML5 |
| 305 | 630 | 20.0 | 57.5 | 45.0 | 30.0 | 52.5 | 2000 | 100 | 1.2 | FXT30K206M++2ML5 |
| 305 | 630 | 22.0 | 57.5 | 45.0 | 30.0 | 52.5 | 2200 | 100 | 1.2 | FXT30K226M++2ML5 |
| 305 | 630 | 25.0 | 57.5 | 45.0 | 30.0 | 52.5 | 2500 | 100 | 1.2 | FXT30K256M++2ML5 |
| 305 | 630 | 30.0 | 57.5 | 45.0 | 30.0 | 52.5 | 3000 | 100 | 1.2 | FXT30K306M++2ML5 |
| 305 | 630 | 30.0 | 57.5 | 50.0 | 35.0 | 52.5 | 3000 | 100 | 1.2 | FXT30K306M++2ML5 |
| 305 | 630 | 33.0 | 57.5 | 50.0 | 35.0 | 52.5 | 3300 | 100 | 1.2 | FXT30K336M++2ML5 |
| 305 | 630 | 39.0 | 57.5 | 50.0 | 35.0 | 52.5 | 3900 | 100 | 1.2 | FXT30K396M++2ML5 |
| 305 | 630 | 40.0 | 57.5 | 50.0 | 35.0 | 52.5 | 4000 | 100 | 1.2 | FXT30K406M++2ML5 |
| 305 | 630 | 45.0 | 57.5 | 60.0 | 45.0 | 52.5 | 4500 | 100 | 1.2 | FXT30K456M++2ML5 |

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