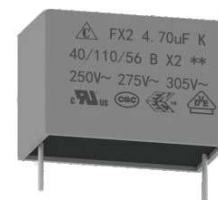


Metallized Polypropylene Film Capacitor (Interference Suppressor Class X2) AC Applications

FX2 series

Overview

The FX2 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

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 45μF
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 wires
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

EMI Capacitors

Metallized Polypropylene Film Capacitor (Interference Suppressor Class X2) AC Applications

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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	10.0	12.0	6.0	7.5	6.0	600	0.6	FX230K103B++2BL5
305	630	0.022	10.0	12.0	6.0	7.5	13.2	600	0.6	FX230K223B++2BL5
305	630	0.033	10.0	12.0	6.0	7.5	19.8	600	0.6	FX230K333B++2BL5
305	630	0.047	10.0	12.0	6.0	7.5	28.2	600	0.6	FX230K473B++2BL5
305	630	0.068	10.0	13.0	7.0	7.5	40.8	600	0.6	FX230K683B++2BL5
305	630	0.100	10.0	14.0	8.0	7.5	60.0	600	0.6	FX230K104B++2BL5
305	630	0.010	13.0	11.0	5.0	10.0	5.0	500	0.6	FX230K103C++2CL5
305	630	0.022	13.0	11.0	5.0	10.0	11.0	500	0.6	FX230K223C++2CL5
305	630	0.033	13.0	11.0	5.0	10.0	16.5	500	0.6	FX230K333C++2CL5
305	630	0.047	13.0	11.0	5.0	10.0	23.5	500	0.6	FX230K473C++2CL5
305	630	0.068	13.0	11.0	5.0	10.0	34.0	500	0.6	FX230K683C++2CL5
305	630	0.082	13.0	11.0	5.0	10.0	41.0	500	0.6	FX230K823C++2CL5
305	630	0.082	13.0	12.0	6.0	10.0	41.0	500	0.6	FX230K823C++2CL5
305	630	0.10	13.0	12.0	6.0	10.0	50.0	500	0.6	FX230K104C++2CL5
305	630	0.15	13.0	13.0	7.0	10.0	75.0	500	0.6	FX230K154C++2CL5
305	630	0.15	13.0	14.0	8.0	10.0	75.0	500	0.6	FX230K154C++2CL5
305	630	0.22	13.0	14.0	8.0	10.0	110.0	500	0.6	FX230K224C++2CL5
305	630	0.27	13.0	16.0	8.0	10.0	135.0	500	0.6	FX230K274C++2CL5
305	630	0.33	13.0	16.0	9.0	10.0	165.0	500	0.6	FX230K334C++2CL5
305	630	0.15	15.0	12.5	7.0	12.5	75.0	500	0.6	FX230K154D++2DL5
305	630	0.22	15.0	12.5	7.0	12.5	110.0	500	0.6	FX230K224D++2DL5
305	630	0.33	15.0	14.0	8.5	12.5	165.0	500	0.6	FX230K334D++2DL5
305	630	0.47	15.0	16.0	10.0	12.5	235.0	500	0.6	FX230K474D++2DL5
305	630	0.047	18.0	11.0	5.0	15.0	18.8	400	0.6	FX230K473E++2EL5
305	630	0.068	18.0	11.0	5.0	15.0	27.2	400	0.6	FX230K683E++2EL5
305	630	0.082	18.0	11.0	5.0	15.0	32.8	400	0.6	FX230K823E++2EL5
305	630	0.10	18.0	11.0	5.0	15.0	40.0	400	0.6	FX230K104E++2EL5
305	630	0.10	18.0	12.0	6.0	15.0	40.0	400	0.6	FX230K104E++2EL5
305	630	0.15	18.0	12.0	6.0	15.0	60.0	400	0.6	FX230K154E++2EL5
305	630	0.22	18.0	12.0	6.0	15.0	88.0	400	0.6	FX230K224E++2EL5
305	630	0.22	18.0	13.5	7.5	15.0	88.0	400	0.8	FX230K224E++2EL5
305	630	0.27	18.0	13.5	7.5	15.0	108.0	400	0.8	FX230K274E++2EL5
305	630	0.27	18.0	14.5	8.5	15.0	108.0	400	0.8	FX230K274E++2EL5
305	630	0.33	18.0	14.5	8.5	15.0	132.0	400	0.8	FX230K334E++2EL5
305	630	0.33	18.0	16.0	10.0	15.0	132.0	400	0.8	FX230K334E++2EL5
305	630	0.47	18.0	16.0	10.0	15.0	188.0	400	0.8	FX230K474E++2EL5
305	630	0.47	18.0	19.0	11.0	15.0	188.0	400	0.8	FX230K474E++2EL5
305	630	0.56	18.0	18.0	10.0	15.0	224.0	400	0.8	FX230K564E++2EL5
305	630	0.68	18.0	19.0	11.0	15.0	272.0	400	0.8	FX230K684E++2EL5
305	630	0.82	18.0	19.0	11.0	15.0	328.0	400	0.8	FX230K824E++2EL5
305	630	1.00	18.0	22.0	12.5	15.0	400.0	400	0.8	FX230K105E++2EL5

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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	0.22	26.0	16.5	7.0	22.5	44	200	0.8	FX230K224F++2FL5
305	630	0.27	26.0	16.5	7.0	22.5	54	200	0.8	FX230K274F++2FL5
305	630	0.33	26.0	17.0	8.5	22.5	66	200	0.8	FX230K334F++2FL5
305	630	0.47	26.0	17.0	8.5	22.5	94	200	0.8	FX230K474F++2FL5
305	630	0.47	26.0	19.0	10.0	22.5	94	200	0.8	FX230K474F++2FL5
305	630	0.56	26.0	17.0	8.5	22.5	112	200	0.8	FX230K564F++2FL5
305	630	0.56	26.0	19.0	10.0	22.5	112	200	0.8	FX230K564F++2FL5
305	630	0.68	26.0	17.0	8.5	22.5	136	200	0.8	FX230K684F++2FL5
305	630	0.68	26.0	19.0	10.0	22.5	136	200	0.8	FX230K684F++2FL5
305	630	0.82	26.0	19.0	10.0	22.5	164	200	0.8	FX230K824F++2FL5
305	630	1.00	26.0	19.0	10.0	22.5	200	200	0.8	FX230K105F++2FL5
305	630	1.00	26.0	20.0	11.0	22.5	200	200	0.8	FX230K105F++2FL5
305	630	1.20	26.0	23.0	13.0	22.5	240	200	0.8	FX230K125F++2FL5
305	630	1.50	26.0	23.0	13.0	22.5	300	200	0.8	FX230K155F++2FL5
305	630	0.68	32.0	18.0	9.0	27.5	102	150	0.8	FX230K684G++2GL5
305	630	0.82	32.0	18.0	9.0	27.5	123	150	0.8	FX230K824G++2GL5
305	630	1.00	32.0	20.0	11.0	27.5	150	150	0.8	FX230K105G++2GL5
305	630	1.20	32.0	22.0	13.0	27.5	180	150	0.8	FX230K125G++2GL5
305	630	1.50	32.0	24.5	13.0	27.5	225	150	0.8	FX230K155G++2GL5
305	630	2.20	32.0	28.0	14.0	27.5	330	150	0.8	FX230K225G++2GL5
305	630	3.30	32.0	33.0	18.0	27.5	495	150	0.8	FX230K335G++2GL5
305	630	4.70	32.0	33.0	18.0	27.5	705	150	0.8	FX230M475G++2GL5
305	630	4.70	32.0	37.0	22.0	27.5	705	150	0.8	FX230K475G++2GL5
305	630	4.70	42.5	32.0	19.0	37.5	470	100	1.0	FX230K475K++2KL5
305	630	6.80	42.5	40.0	20.0	37.5	680	100	1.0	FX230M685K++2KL5
305	630	6.80	42.5	44.0	24.0	37.5	680	100	1.0	FX230K685K++2KL5
305	630	10.0	42.5	45.0	30.0	37.5	1000	100	1.0	FX230K106K++2KL5
305	630	12.0	42.5	45.0	30.0	37.5	1200	100	1.0	FX230K126K++2KL5
305	630	12.0	57.5	45.0	30.0	52.5	960	80	1.2	FX230K126M++2ML5
305	630	15.0	42.5	45.0	30.0	37.5	1500	100	1.0	FX230K156K++2KL5
305	630	15.0	57.5	45.0	30.0	52.5	900	60	1.2	FX230K156M++2ML5
305	630	18.0	42.5	45.0	30.0	37.5	1800	100	1.0	FX230K186K++2KL5
305	630	18.0	57.5	45.0	30.0	52.5	1080	60	1.2	FX230K186M++2ML5
305	630	20.0	42.5	45.0	30.0	37.5	2000	100	1.0	FX230K206K++2KL5
305	630	20.0	57.5	45.0	30.0	52.5	1200	60	1.2	FX230K206M++2ML5
305	630	22.0	42.5	45.0	30.0	37.5	2200	100	1.0	FX230K226K++2KL5
305	630	22.0	57.5	45.0	30.0	52.5	1320	60	1.2	FX230K226M++2ML5
305	630	25.0	57.5	45.0	30.0	52.5	1500	60	1.2	FX230K256M++2ML5
305	630	30.0	57.5	45.0	30.0	52.5	1800	60	1.2	FX230M306M++2ML5
305	630	30.0	57.5	50.0	35.0	52.5	1800	60	1.2	FX230K306M++2ML5
305	630	33.0	57.5	50.0	35.0	52.5	1980	60	1.2	FX230K336M++2ML5
305	630	39.0	57.5	50.0	35.0	52.5	2340	60	1.2	FX230M396M++2ML5
305	630	40.0	57.5	50.0	35.0	52.5	2400	60	1.2	FX230M406M++2ML5
305	630	45.0	57.5	60.0	45.0	52.5	2700	60	1.2	FX230K456M++2ML5

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