

Metallized Polypropylene Film Capacitor (Interference Suppressor Class Y2) AC Applications

FY2 series

Overview

The FY2 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 and line-to-ground applications which required Y2 safety classification. Failure of the capacitor would not lead to danger of electric shock.
- Used in inverter of wind power, UPS systems.
- Not suitable for “series with mains” applications.

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	0.001μF to 1.0μF
Rated Voltage	300Vac / 330Vac 50/60Hz
Capacitance Tolerance	±10% or ±20% at +25°C
Dissipation Factor (DF)	≤ 0.002 (0.2%) at 1kHz at +25°C
Test Voltage Between Terminals	$U_R + 1200\text{Vac}$ for 60s or 4000VDC 2s (terminal to terminal)
Test Voltage Terminal to Case	$2U_R + 1500\text{Vac}$ 50/60Hz for 60s at +25°C
Insulation Resistance	>15,000 MΩ (C≤0.33μF) at 100VDC 1 minute at +25°C >5,000 s (C > 0.33μF) at 100VDC 1 minute at +25°C
Life Expectancy	100,000 hours at U_n @ Hot-Spot temperature $T = +85^\circ\text{C}$
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 Capacitance change : ≤±5% DF change ($\Delta tg\delta$): ≤80 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 Capacitance change : ≤±10% DF change ($\Delta tg\delta$): ≤80 X 10 ⁻⁴ at 1KHz Insulation resistance: ≥50% of initial limit

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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			
300/330	1500	0.0010	10.5	11.0	5.0	7.5	0.6	600	0.6	FY230K102B++2BL5
300/330	1500	0.0012	10.5	11.0	5.0	7.5	0.7	600	0.6	FY230K122B++2BL5
300/330	1500	0.0015	10.5	11.0	5.0	7.5	0.9	600	0.6	FY230K152B++2BL5
300/330	1500	0.0018	10.5	11.0	5.0	7.5	1.1	600	0.6	FY230K182B++2BL5
300/330	1500	0.0022	10.5	11.0	5.0	7.5	1.3	600	0.6	FY230K222B++2BL5
300/330	1500	0.0027	10.5	11.0	5.0	7.5	1.6	600	0.6	FY230K272B++2BL5
300/330	1500	0.0033	10.5	11.0	5.0	7.5	2.0	600	0.6	FY230K332B++2BL5
300/330	1500	0.0039	10.5	11.0	5.0	7.5	2.3	600	0.6	FY230K392B++2BL5
300/330	1500	0.0047	10.5	12.0	6.0	7.5	2.8	600	0.6	FY230K472B++2BL5
300/330	1500	0.0056	10.5	12.0	6.0	7.5	3.4	600	0.6	FY230K562B++2BL5
300/330	1500	0.0010	13.0	11.0	5.0	10.0	0.5	500	0.6	FY230K102C++2CL5
300/330	1500	0.0012	13.0	11.0	5.0	10.0	0.6	500	0.6	FY230K122C++2CL5
300/330	1500	0.0015	13.0	11.0	5.0	10.0	0.8	500	0.6	FY230K152C++2CL5
300/330	1500	0.0018	13.0	11.0	5.0	10.0	0.9	500	0.6	FY230K182C++2CL5
300/330	1500	0.0022	13.0	11.0	5.0	10.0	1.1	500	0.6	FY230K222C++2CL5
300/330	1500	0.0027	13.0	11.0	5.0	10.0	1.4	500	0.6	FY230K272C++2CL5
300/330	1500	0.0033	13.0	11.0	5.0	10.0	1.7	500	0.6	FY230K332C++2CL5
300/330	1500	0.0039	13.0	11.0	5.0	10.0	2.0	500	0.6	FY230K392C++2CL5
300/330	1500	0.0047	13.0	11.0	5.0	10.0	2.4	500	0.6	FY230K472C++2CL5
300/330	1500	0.0056	13.0	11.0	5.0	10.0	2.8	500	0.6	FY230K562C++2CL5
300/330	1500	0.0068	13.0	11.0	5.0	10.0	3.4	500	0.6	FY230K682C++2CL5
300/330	1500	0.0082	13.0	12.0	6.0	10.0	4.1	500	0.6	FY230K822C++2CL5
300/330	1500	0.010	13.0	12.0	6.0	10.0	5.0	500	0.6	FY230K103C++2CL5
300/330	1500	0.012	13.0	12.0	6.0	10.0	6.0	500	0.6	FY230K123C++2CL5
300/330	1500	0.015	13.0	12.0	6.0	10.0	7.5	500	0.6	FY230K153C++2CL5
300/330	1500	0.0022	18.0	11.0	5.0	15.0	0.9	400	0.6	FY230K222E++2EL5
300/330	1500	0.0027	18.0	11.0	5.0	15.0	1.1	400	0.6	FY230K272E++2EL5
300/330	1500	0.0033	18.0	11.0	5.0	15.0	1.3	400	0.6	FY230K332E++2EL5
300/330	1500	0.0039	18.0	11.0	5.0	15.0	1.6	400	0.6	FY230K392E++2EL5
300/330	1500	0.0047	18.0	11.0	5.0	15.0	1.9	400	0.6	FY230K472E++2EL5
300/330	1500	0.0056	18.0	11.0	5.0	15.0	2.2	400	0.6	FY230K562E++2EL5
300/330	1500	0.0068	18.0	11.0	5.0	15.0	2.7	400	0.6	FY230K682E++2EL5
300/330	1500	0.0082	18.0	11.0	5.0	15.0	3.3	400	0.6	FY230K822E++2EL5
300/330	1500	0.010	18.0	11.0	5.0	15.0	4.0	400	0.6	FY230K103E++2EL5
300/330	1500	0.012	18.0	11.0	5.0	15.0	4.8	400	0.6	FY230K123E++2EL5
300/330	1500	0.015	18.0	11.0	5.0	15.0	6.0	400	0.6	FY230K153E++2EL5
300/330	1500	0.018	18.0	12.0	6.0	15.0	7.2	400	0.6	FY230K183E++2EL5
300/330	1500	0.022	18.0	12.0	6.0	15.0	8.8	400	0.6	FY230K223E++2EL5
300/330	1500	0.027	18.0	13.0	7.0	15.0	10.8	400	0.8	FY230K273E++2EL5
300/330	1500	0.033	18.0	13.5	7.5	15.0	13.2	400	0.8	FY230K333E++2EL5
300/330	1500	0.039	18.0	13.5	7.5	15.0	15.6	400	0.8	FY230K393E++2EL5
300/330	1500	0.047	18.0	14.5	8.5	15.0	18.8	400	0.8	FY230K473E++2EL5
300/330	1500	0.056	18.0	16.0	10.0	15.0	22.4	400	0.8	FY230K563E++2EL5
300/330	1500	0.068	18.0	16.0	10.0	15.0	27.2	400	0.8	FY230K683E++2EL5
300/330	1500	0.082	18.0	19.0	11.0	15.0	32.8	400	0.8	FY230K823E++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			
300/330	1500	0.033	26.0	15.5	6.0	22.5	6.6	200	0.6	FY230K333F++2FL5
300/330	1500	0.039	26.0	15.5	6.0	22.5	7.8	200	0.6	FY230K393F++2FL5
300/330	1500	0.047	26.0	15.5	6.0	22.5	9.4	200	0.6	FY230K473F++2FL5
300/330	1500	0.056	26.0	15.5	6.0	22.5	11.2	200	0.6	FY230K563F++2FL5
300/330	1500	0.068	26.0	16.5	7.0	22.5	13.6	200	0.8	FY230K683F++2FL5
300/330	1500	0.082	26.0	16.5	7.0	22.5	16.4	200	0.8	FY230K823F++2FL5
300/330	1500	0.10	26.0	17.0	8.5	22.5	20.0	200	0.8	FY230K104F++2FL5
300/330	1500	0.12	26.0	17.0	8.5	22.5	24.0	200	0.8	FY230K124F++2FL5
300/330	1500	0.15	26.0	19.0	10.0	22.5	30.0	200	0.8	FY230K154F++2FL5
300/330	1500	0.18	26.0	20.0	11.0	22.5	36.0	200	0.8	FY230K184F++2FL5
300/330	1500	0.22	26.0	22.0	12.0	22.5	44.0	200	0.8	FY230K224F++2FL5
300/330	1500	0.27	26.0	24.5	13.0	22.5	54.0	200	0.8	FY230K274F++2FL5
300/330	1500	0.33	26.0	25.0	15.0	22.5	66.0	200	0.8	FY230K334F++2FL5
300/330	1500	0.39	26.0	29.5	14.5	22.5	78.0	200	0.8	FY230K394F++2FL5
300/330	1500	0.10	32.0	18.0	9.0	27.5	15.0	150	0.8	FY230K104G++2GL5
300/330	1500	0.12	32.0	18.0	9.0	27.5	18.0	150	0.8	FY230K124G++2GL5
300/330	1500	0.15	32.0	18.0	9.0	27.5	22.5	150	0.8	FY230K154G++2GL5
300/330	1500	0.18	32.0	20.0	11.0	27.5	27.0	150	0.8	FY230K184G++2GL5
300/330	1500	0.22	32.0	20.0	11.0	27.5	33.0	150	0.8	FY230K224G++2GL5
300/330	1500	0.27	32.0	22.0	13.0	27.5	40.5	150	0.8	FY230K274G++2GL5
300/330	1500	0.33	32.0	24.5	13.0	27.5	49.5	150	0.8	FY230K334G++2GL5
300/330	1500	0.39	32.0	25.0	16.0	27.5	58.5	150	0.8	FY230K394G++2GL5
300/330	1500	0.39	32.0	28.0	14.0	27.5	58.5	150	0.8	FY230M394G++2GL5
300/330	1500	0.47	32.0	28.0	18.0	27.5	70.5	150	0.8	FY230K474G++2GL5
300/330	1500	0.56	32.0	28.0	18.0	27.5	84.0	150	0.8	FY230K564G++2GL5
300/330	1500	0.68	32.0	33.0	18.0	27.5	102.0	150	0.8	FY230K684G++2GL5
300/330	1500	0.82	32.0	37.0	22.0	27.5	123.0	150	0.8	FY230K824G++2GL5
300/330	1500	1.00	32.0	37.0	22.0	27.5	150.0	150	0.8	FY230K105G++2GL5
300/330	1500	0.33	42.5	22.0	11.0	37.5	33.0	100	1.0	FY230K334K++2KL5
300/330	1500	0.39	42.5	24.0	13.0	37.5	39.0	100	1.0	FY230K394K++2KL5
300/330	1500	0.47	42.5	24.0	13.0	37.5	47.0	100	1.0	FY230K474K++2KL5
300/330	1500	0.56	42.5	26.0	15.0	37.5	56.0	100	1.0	FY230K564K++2KL5
300/330	1500	0.68	42.5	30.0	17.0	37.5	68.0	100	1.0	FY230K684K++2KL5
300/330	1500	0.82	42.5	30.0	17.0	37.5	82.0	100	1.0	FY230K824M++2KL5
300/330	1500	0.82	42.5	28.0	19.0	37.5	82.0	100	1.0	FY230K824K++2KL5
300/330	1500	1.00	42.5	32.0	19.0	37.5	100.0	100	1.0	FY230K105K++2KL5

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