

Metallized Polypropylene Film Capacitor (Plastic Case) PFC Applications

FGA Series

Overview

The FGA series is constructed of metallized polypropylene film encapsulated in plastic cases, sealed with epoxy resin. They are suitable for high frequency and PFC applications.



Applications

- Power supplies.
- Power factor correction.
- Ballasts and compact lamps.
- Inverter.

Features

- High ripple current
- Self-healing property
- Low losses
- High contact reliability

Specifications

Items	Characteristics
Reference Standard	IEC 60384-16
Climatic Category	40/105/56 IEC 60068-1
Operating Temperature Range	-40°C to +105°C
Rated Voltage	450Vdc ~ 630Vdc
Capacitance Range	0.01µF ~ 3.3µF
Capacitance Tolerance	±5% or ±10% at +25°C
Dissipation Factor (DF)	≤ 0.001 (0.1%) at 1kHz at +25°C
Test Voltage Between Terminals	1.5 x rated voltage for 10s (terminal to terminal)
Test Voltage Terminal to Case	2.0kVac 50 Hz for 10s at +25°C
Insulation Resistance	>30,000 MΩ (C≤0.33µF) at 100VDC 1 minute at +25°C >10,000 MΩ (C > 0.33µF) at 100VDC 1 minute at +25°C
Life Expectancy	100,000 hours at Un @ Hot-Spot temperature T=+ 85°C
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 Capacitance change :≤±5% DF change (Δtgδ):≤10 X 10 ⁻⁴ at 1KHz Insulation resistance: ≥50% of initial limit
Endurance Test	Test conditions & performance: Temperature: +105°C ±2°C Voltage applied:1.25 X V _R (d.c.) Test duration : 1000 hours Capacitance change :≤±5% DF change (Δtgδ):≤10 X 10 ⁻⁴ at 1KHz Insulation resistance: ≥50% of initial limit

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Vdc	Vac	Cap	Dimensions			Lead Spacing	Peak	dv/dt	Lead Wire	Part Number
		Value	W	H	T	P	Current			
		μF	mm	mm	mm	mm	A			
450	220	0.1	13	11	5	10	25.0	250	0.6	FGA2WK104C++2CL5
450	220	0.15	13	11	5	10	37.5	250	0.6	FGA2WK154C++2CL5
450	220	0.22	13	11	5	10	55.0	250	0.6	FGA2WK224C++2CL5
450	220	0.33	13	12	6	10	82.5	250	0.6	FGA2WK334C++2CL5
450	220	0.39	13	13	7	10	97.5	250	0.6	FGA2WK394C++2CL5
450	220	0.47	13	13	7	10	117.5	250	0.6	FGA2WK474C++2CL5
450	220	0.56	13	14	8	10	140.0	250	0.6	FGA2WK564C++2CL5
450	220	0.68	13	16	8	10	170.0	250	0.6	FGA2WK684C++2CL5
450	220	0.82	13	19	10	10	205.0	250	0.6	FGA2WK824C++2CL5
450	220	1.0	13	19	10	10	250.0	250	0.6	FGA2WK105C++2CL5
450	220	0.1	18	11	5	15	16.0	160	0.6	FGA2WK104E++2EL5
450	220	0.15	18	11	5	15	24.0	160	0.6	FGA2WK154E++2EL5
450	220	0.22	18	12	6	15	35.2	160	0.6	FGA2WK224E++2EL5
450	220	0.33	18	17.5	6	15	52.8	160	0.6	FGA2WK334E++2EL5
450	220	0.47	18	13.5	7.5	15	75.2	160	0.8	FGA2WK474E++2EL5
450	220	0.47	18	17.5	6	15	75.2	160	0.6	FGA2WK474E++2EL5
450	220	0.47	18	12.5	9	15	75.2	160	0.8	FGA2WK474E++2EL5
450	220	0.68	18	17.5	6	15	108.8	160	0.6	FGA2WK684E++2EL5
450	220	0.68	18	14.5	8.5	15	108.8	160	0.8	FGA2WK684E++2EL5
450	220	0.68	18	12	13	15	108.8	160	0.8	FGA2WK684E++2EL5
450	220	0.82	18	14.5	8.5	15	131.2	160	0.8	FGA2WK824E++2EL5
450	220	0.82	18	12	13	15	131.2	160	0.8	FGA2WK824E++2EL5
450	220	1.0	18	16	10	15	160.0	160	0.8	FGA2WK105E++2EL5
450	220	1.5	18	19	11	15	240.0	160	0.8	FGA2WK155E++2EL5
450	220	2.2	26	19	10	22.5	220.0	100	0.8	FGA2WK225F++2FL5
450	220	3.3	26	23	13	22.5	330.0	100	0.8	FGA2WK335F++2FL5
550	250	0.1	13	11	5	10	30.0	300	0.6	FGA2JK104C++2CL5
550	250	0.15	13	12	6	10	45.0	300	0.6	FGA2JK154C++2CL5
550	250	0.22	13	13	7	10	66.0	300	0.6	FGA2JK224C++2CL5
550	250	0.33	13	14	8	10	99.0	300	0.6	FGA2JK334C++2CL5
550	250	0.47	13	16	8	10	141.0	300	0.6	FGA2JK474C++2CL5
550	250	0.1	18	11	5	15	20.0	200	0.6	FGA2JK104E++2EL5
550	250	0.15	18	11	5	15	30.0	200	0.6	FGA2JK154E++2EL5
550	250	0.22	18	12	6	15	44.0	200	0.6	FGA2JK224E++2EL5
550	250	0.33	18	17.5	6	15	66.0	200	0.6	FGA2JK334E++2EL5
550	250	0.33	18	13.5	7.5	15	66.0	200	0.8	FGA2JK334E++2EL5
550	250	0.33	18	12.5	9	15	66.0	200	0.8	FGA2JK334E++2EL5
550	250	0.47	18	14.5	8.5	15	94.0	200	0.8	FGA2JK474E++2EL5
550	250	0.47	18	18	7	15	94.0	200	0.8	FGA2JK474E++2EL5
550	250	0.47	18	12	13	15	94.0	200	0.8	FGA2JK474E++2EL5
550	250	0.68	18	16	10	15	136.0	200	0.8	FGA2JK684E++2EL5
550	250	0.82	18	19	11	15	164.0	200	0.8	FGA2JK824E++2EL5
550	250	1	18	19	11	15	200.0	200	0.8	FGA2JK105E++2EL5
550	250	1.5	26	20	11	22.5	180.0	120	0.8	FGA2JK155F++2FL5
550	250	2.2	26	23	13	22.5	264.0	120	0.8	FGA2JK225F++2FL5

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Vdc	Vac	Cap	Dimensions			Lead Spacing	Peak	dv/dt	Lead Wire	Part Number
		Value	W	H	T	P	Current			
		µF	mm	mm	mm	mm	A			
630	275	0,01	13	11	5	10	4,0	400	0,6	FGA2LK103C++2CL5
630	275	0,015	13	11	5	10	6,0	400	0,6	FGA2LK153C++2CL5
630	275	0,022	13	11	5	10	8,8	400	0,6	FGA2LK223C++2CL5
630	275	0,033	13	11	5	10	13,2	400	0,6	FGA2LK333C++2CL5
630	275	0,047	13	11	5	10	18,8	400	0,6	FGA2LK473C++2CL5
630	275	0,068	13	12	6	10	27,2	400	0,6	FGA2LK683C++2CL5
630	275	0,082	13	12	6	10	32,8	400	0,6	FGA2LK823C++2CL5
630	275	0,1	13	12	6	10	40,0	400	0,6	FGA2LK104C++2CL5
630	275	0,047	18	11	5	15	11,8	250	0,6	FGA2LK473E++2EL5
630	275	0,056	18	11	5	15	14,0	250	0,6	FGA2LK563E++2EL5
630	275	0,068	18	11	5	15	17,0	250	0,6	FGA2LK683E++2EL5
630	275	0,082	18	11	5	15	20,5	250	0,6	FGA2LK823E++2EL5
630	275	0,100	18	11	5	15	25,0	250	0,6	FGA2LK104E++2EL5
630	275	0,15	18	12	6	15	37,5	250	0,6	FGA2LK154E++2EL5
630	275	0,22	18	17,5	6	15	55,0	250	0,6	FGA2LK224E++2EL5
630	275	0,22	18	13,5	7,5	15	55,0	250	0,8	FGA2LK224E++2EL5
630	275	0,22	18	12,5	9	15	55,0	250	0,8	FGA2LK224E++2EL5
630	275	0,33	18	18	7	15	82,5	250	0,8	FGA2LK334E++2EL5
630	275	0,33	18	14,5	8,5	15	82,5	250	0,8	FGA2LK334E++2EL5
630	275	0,33	18	12,5	9	15	82,5	250	0,8	FGA2LK334E++2EL5
630	275	0,47	18	18	7	15	117,5	250	0,8	FGA2LK474E++2EL5
630	275	0,47	18	16	10	15	117,5	250	0,8	FGA2LK474E++2EL5
630	275	0,47	18	12	13	15	117,5	250	0,8	FGA2LK474E++2EL5
630	275	0,68	18	19	10	15	170,0	250	0,8	FGA2LK684E++2EL5
630	275	0,82	26	19	10	22,5	131,2	160	0,8	FGA2LK824F++2FL5
630	275	1,0	26	20	11	22,5	160,0	160	0,8	FGA2LK105F++2FL5

DC Film Capacitors

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