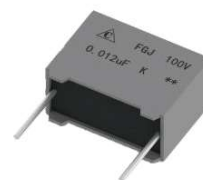


Metallized Polyester Film Capacitor (Box Type, P=5 mm) DC and Pulse Applications

FGJ Series

Overview

The FGJ series is constructed of single metallized polyester film encapsulated in plastic case and sealed with epoxy resin.



Applications

- By-passing, blocking, coupling, decoupling.
- Widely used in filter, low pulse circuits.

Features

- Flame-retardant box, dimensional consistency
- Self-healing property
- High density packaging
- Good solderability
- High moisture resistance

Specifications

Items	Characteristics
Reference Standard	IEC 60384-2
Climatic Category	40/105/56 IEC 60068-1
Operating Temperature Range	-40°C to +105°C
Rated Voltage	63Vdc ~ 100Vdc
Capacitance Range	0.01µF ~ 1.0µF
Capacitance Tolerance	±5% or ±10% at +25°C
Dissipation Factor (DF)	≤0.01 (1.0%) 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
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 (Δtg δ) : ≤10 X 10 ⁻³ 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 : ≤±10% DF change (Δtg δ) : ≤10 X 10 ⁻³ at 1KHz Insulation resistance: ≥50% of initial limit

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DC and Pulse Applications

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■ Technical data

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			
63	25	0.01	7.3	7.2	3.2	5.0	0.5	45	0.5	FGJ1JJ103A++VAAT
63	25	0.012	7.3	7.2	3.2	5.0	0.5	45	0.5	FGJ1JJ123A++VAAT
63	25	0.015	7.3	7.2	3.2	5.0	0.7	45	0.5	FGJ1JJ153A++VAAT
63	25	0.018	7.3	7.2	3.2	5.0	0.8	45	0.5	FGJ1JJ183A++VAAT
63	25	0.022	7.3	7.2	3.2	5.0	1.0	45	0.5	FGJ1JJ223A++VAAT
63	25	0.027	7.3	7.2	3.2	5.0	1.2	45	0.5	FGJ1JJ273A++VAAT
63	25	0.033	7.3	7.2	3.2	5.0	1.5	45	0.5	FGJ1JJ333A++VAAT
63	25	0.039	7.3	7.2	3.2	5.0	1.8	45	0.5	FGJ1JJ393A++VAAT
63	25	0.047	7.3	7.2	3.2	5.0	2.1	45	0.5	FGJ1JJ473A++VAAT
63	25	0.056	7.3	7.2	3.2	5.0	2.5	45	0.5	FGJ1JJ563A++VAAT
63	25	0.068	7.3	7.2	3.2	5.0	3.1	45	0.5	FGJ1JJ683A++VAAT
63	25	0.082	7.3	7.2	3.2	5.0	3.7	45	0.5	FGJ1JJ823A++VAAT
63	25	0.1	7.3	7.2	3.2	5.0	4.5	45	0.5	FGJ1JJ104A++VAAT
63	25	0.12	7.3	7.6	3.6	5.0	5.4	45	0.5	FGJ1JJ124A++VAAT
63	25	0.15	7.3	7.6	3.6	5.0	6.8	45	0.5	FGJ1JJ154A++VAAT
63	25	0.18	7.3	7.6	3.6	5.0	8.1	45	0.5	FGJ1JJ184A++VAAT
63	25	0.22	7.3	7.6	3.6	5.0	9.9	45	0.5	FGJ1JJ224A++VAAT
63	25	0.27	7.3	9.6	4.6	5.0	12.2	45	0.5	FGJ1JJ274A++VAAT
63	25	0.33	7.3	9.6	4.6	5.0	14.9	45	0.5	FGJ1JJ334A++VAAT
63	25	0.39	7.3	9.6	4.6	5.0	17.6	45	0.5	FGJ1JJ394A++VAAT
63	25	0.47	7.3	10.2	5.2	5.0	21.2	45	0.5	FGJ1JJ474A++VAAT
63	25	0.56	7.3	10.2	5.2	5.0	25.2	45	0.5	FGJ1JJ564A++VAAT
63	25	0.68	7.3	11.5	5.5	5.0	30.6	45	0.5	FGJ1JJ684A++VAAT
63	25	0.82	7.3	11.5	5.5	5.0	36.9	45	0.5	FGJ1JJ824A++VAAT
63	25	1	7.3	12.0	6.5	5.0	45.0	45	0.5	FGJ1JJ105A++VAAT

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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			
100	25	0,01	7,3	7,2	3,2	5,0	0,5	45	0,5	FGJ1KJ103A++VAAT
100	25	0,012	7,3	7,2	3,2	5,0	0,5	45	0,5	FGJ1KJ123A++VAAT
100	25	0,015	7,3	7,2	3,2	5,0	0,7	45	0,5	FGJ1KJ153A++VAAT
100	25	0,018	7,3	7,2	3,2	5,0	0,8	45	0,5	FGJ1KJ183A++VAAT
100	25	0,022	7,3	7,2	3,2	5,0	1,0	45	0,5	FGJ1KJ223A++VAAT
100	25	0,027	7,3	7,2	3,2	5,0	1,2	45	0,5	FGJ1KJ273A++VAAT
100	25	0,033	7,3	7,2	3,2	5,0	1,5	45	0,5	FGJ1KJ333A++VAAT
100	25	0,039	7,3	7,2	3,2	5,0	1,8	45	0,5	FGJ1KJ393A++VAAT
100	25	0,047	7,3	7,2	3,2	5,0	2,1	45	0,5	FGJ1KJ473A++VAAT
100	25	0,056	7,3	7,2	3,2	5,0	2,5	45	0,5	FGJ1KJ563A++VAAT
100	25	0,068	7,3	7,2	3,2	5,0	3,1	45	0,5	FGJ1KJ683A++VAAT
100	25	0,082	7,3	7,2	3,2	5,0	3,7	45	0,5	FGJ1KJ823A++VAAT
100	25	0,1	7,3	7,2	3,2	5,0	4,5	45	0,5	FGJ1KJ104A++VAAT
100	25	0,12	7,3	7,6	3,6	5,0	5,4	45	0,5	FGJ1KJ124A++VAAT
100	25	0,15	7,3	7,6	3,6	5,0	6,8	45	0,5	FGJ1KJ154A++VAAT
100	25	0,18	7,3	7,6	3,6	5,0	8,1	45	0,5	FGJ1KJ184A++VAAT
100	25	0,22	7,3	7,6	3,6	5,0	9,9	45	0,5	FGJ1KJ224A++VAAT
100	25	0,27	7,3	9,6	4,6	5,0	12,2	45	0,5	FGJ1KJ274A++VAAT
100	25	0,33	7,3	9,6	4,6	5,0	14,9	45	0,5	FGJ1KJ334A++VAAT
100	25	0,39	7,3	9,6	4,6	5,0	17,6	45	0,5	FGJ1KJ394A++VAAT
100	25	0,47	7,3	10,2	5,2	5,0	21,2	45	0,5	FGJ1KJ474A++VAAT
100	25	0,56	7,3	10,2	5,2	5,0	25,2	45	0,5	FGJ1KJ564A++VAAT
100	25	0,68	7,3	11,5	5,5	5,0	30,6	45	0,5	FGJ1KJ684A++VAAT
100	25	0,82	7,3	11,5	5,5	5,0	36,9	45	0,5	FGJ1KJ824A++VAAT
100	25	1	7,3	12,0	6,5	5,0	45,0	45	0,5	FGJ1KJ105A++VAAT

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