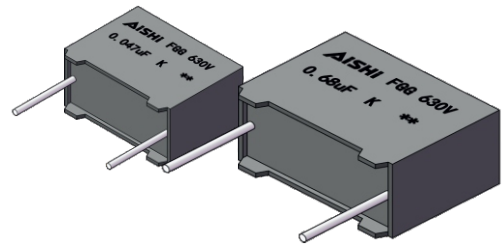


Metallized Polyester Film Capacitor (Plastic Case) DC and Pulse Applications

FGG Series

Overview

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



Applications

- By-passing, blocking, coupling, decoupling.
- Pulse, logic, timing, oscillator circuits.
- Ballasts and compact lamps.

Features

- High ripple current
- 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	100Vdc ~ 630Vdc
Capacitance Range	0.001μF ~ 33.0μF
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 ≤ 0.33uF) at 100VDC 1 minute at +25°C > 10,000 MΩ (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 2002/95/EC
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 ($\Delta tg \delta$) : ≤ 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 : ≤ ±5% DF change ($\Delta tg \delta$) : ≤ 10 X 10 ⁻³ at 1KHz Insulation resistance: ≥ 50% of initial limit

Metallized Polyester Film Capacitor (Plastic Case) DC and Pulse Applications

FGG Series

Technical data

Vdc	Vac	Cap	Dimensions			Lead Spacing	Peak	dv/dt	Lead	Part Number
		Value μF	W mm	H mm	T mm	P mm	Current A		Wire mm	
100	50	0.1	10.5	8.5	3.5	7.5	5.0	35	0.5	FGG1KJ104B++2BL5
100	50	0.1	13	9	4	10	5.0	30	0.6	FGG1KJ104C++2CL5
100	50	0.12	10.5	8.5	3.5	7.5	21.6	35	0.5	FGG1KJ124B++2BL5
100	50	0.12	13	9	4	10	21.6	30	0.6	FGG1KJ124C++2CL5
100	50	0.15	10.5	8.5	3.5	7.5	27.0	35	0.5	FGG1KJ154B++2BL5
100	50	0.15	13	9	4	10	15.0	30	0.6	FGG1KJ154C++2CL5
100	50	0.18	10.5	8.5	3.5	7.5	18.0	35	0.5	FGG1KJ184B++2BL5
100	50	0.18	13	9	4	10	18.0	30	0.6	FGG1KJ184C++2CL5
100	50	0.22	10.5	8.5	3.5	7.5	22.0	35	0.5	FGG1KJ224B++2BL5
100	50	0.22	13	9	4	10	22.0	30	0.6	FGG1KJ224C++2CL5
100	50	0.33	10.5	9	4	7.5	33.0	35	0.5	FGG1KJ334B++2BL5
100	50	0.33	13	9	4	10	33.0	30	0.6	FGG1KJ334C++2CL5
100	50	0.47	10.5	9	4	7.5	47.0	35	0.5	FGG1KJ474B++2BL5
100	50	0.47	13	9	4	10	28.2	30	0.6	FGG1KJ474C++2CL5
100	50	0.56	10.5	11	5	7.5	33.6	35	0.5	FGG1KJ564B++2BL5
100	50	0.56	13	9	4	10	33.6	30	0.6	FGG1KJ564C++2CL5
100	50	0.68	10.5	11	5	7.5	34.0	35	0.5	FGG1KJ684B++2BL5
100	50	0.68	13	9	4	10	34.0	30	0.6	FGG1KJ684C++2CL5
100	50	0.82	10.5	12	6	7.5	41.0	35	0.5	FGG1KJ824B++2BL5
100	50	0.82	13	11	5	10	41.0	30	0.6	FGG1KJ824C++2CL5
100	50	1.0	10.5	12	6	7.5	50.0	35	0.5	FGG1KJ105B++2BL5
100	50	1.0	13	11	5	10	50.0	30	0.6	FGG1KJ105C++2CL5
100	50	1.2	13	12	6	10	60.0	30	0.6	FGG1KJ125C++2CL5
100	50	1.5	13	12	6	10	75.0	30	0.6	FGG1KJ155C++2CL5
100	50	1.8	13	13	7	10	90.0	30	0.6	FGG1KJ185C++2CL5
100	50	2.2	18	12	6	15	110.0	20	0.6	FGG1KJ225E++2EL5
100	50	3.3	18	13.5	7.5	15	165.0	20	0.8	FGG1KJ335E++2EL5
100	50	4.7	18	14.5	8.5	15	164.5	20	0.8	FGG1KJ475E++2EL5
100	50	4.7	26	16.5	7	22.5	164.5	10	0.8	FGG1KJ475F++2FL5
100	50	6.8	26	19	10	22.5	238.0	10	0.8	FGG1KJ685F++2FL5
100	50	8.2	26	20	11	22.5	287.0	10	0.8	FGG1KJ825F++2FL5
100	50	10	26	22	12	22.5	350.0	10	0.8	FGG1KJ106F++2FL5
100	50	10	32	20	11	27.5	350.0	5	0.8	FGG1KJ106G++2GL5
100	50	12	32	20	11	27.5	420.0	5	0.8	FGG1KJ126G++2GL5
100	50	15	32	22	13	27.5	525.0	5	0.8	FGG1KJ156G++2GL5
100	50	22	32	25	16	27.5	770.0	5	0.8	FGG1KJ226G++2GL5
100	50	30	32	28	18	27.5	1050.0	5	0.8	FGG1KJ306G++2GL5

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Metallized Polyester Film Capacitor (Plastic Case) DC and Pulse Applications

FGG Series

Technical data

Vdc	Vac	Cap	Dimensions			Lead Spacing	Peak	dv/dt	Lead	Part Number
		Value	W	H	T	P	Current			
		μF	mm	mm	mm	mm	A		V/us	
250	160	0.033	10.5	8.5	3.5	7.5	18.2	110	0.5	FGG2EJ333B++2BL5
250	160	0.033	13	9	4	10	18.2	80	0.6	FGG2EJ333C++2CL5
250	160	0.047	10.5	8.5	3.5	7.5	25.9	110	0.5	FGG2EJ473B++2BL5
250	160	0.047	13	9	4	10	25.9	80	0.6	FGG2EJ473C++2CL5
250	160	0.056	10.5	8.5	3.5	7.5	30.8	110	0.5	FGG2EJ563B++2BL5
250	160	0.056	13	9	4	10	30.8	80	0.6	FGG2EJ563C++2CL5
250	160	0.068	10.5	8.5	3.5	7.5	37.4	110	0.5	FGG2EJ683B++2BL5
250	160	0.068	13	9	4	10	37.4	80	0.6	FGG2EJ683C++2CL5
250	160	0.082	10.5	8.5	3.5	7.5	45.1	110	0.5	FGG2EJ823B++2BL5
250	160	0.082	13	9	4	10	24.6	80	0.6	FGG2EJ823C++2CL5
250	160	0.1	10.5	8.5	3.5	7.5	30.0	110	0.5	FGG2EJ104B++2BL5
250	160	0.1	13	9	4	10	30.0	80	0.6	FGG2EJ104C++2CL5
250	160	0.12	10.5	9	4	7.5	36.0	110	0.5	FGG2EJ124B++2BL5
250	160	0.12	13	9	4	10	36.0	80	0.6	FGG2EJ124C++2CL5
250	160	0.15	10.5	9	4	7.5	45.0	110	0.5	FGG2EJ154B++2BL5
250	160	0.15	13	9	4	10	45.0	80	0.6	FGG2EJ154C++2CL5
250	160	0.18	10.5	11	5	7.5	54.0	110	0.5	FGG2EJ184B++2BL5
250	160	0.18	13	11	5	10	54.0	80	0.6	FGG2EJ184C++2CL5
250	160	0.22	10.5	11	5	7.5	66.0	110	0.5	FGG2EJ224B++2BL5
250	160	0.22	13	11	5	10	66.0	80	0.6	FGG2EJ224C++2CL5
250	160	0.33	10.5	12	6	7.5	41.3	110	0.5	FGG2EJ334B++2BL5
250	160	0.33	13	11	5	10	41.3	80	0.6	FGG2EJ334C++2CL5
250	160	0.39	13	12	6	10	48.8	80	0.6	FGG2EJ394C++2CL5
250	160	0.47	13	12	6	10	58.8	80	0.6	FGG2EJ474C++2CL5
250	160	0.47	18	11	5	15	58.8	45	0.6	FGG2EJ474E++2EL5
250	160	0.68	18	12	6	15	85.0	45	0.6	FGG2EJ684E++2EL5
250	160	1	18	13.5	7.5	15	100.0	45	0.8	FGG2EJ105E++2EL5
250	160	1.2	18	13.5	7.5	15	120.0	45	0.8	FGG2EJ125E++2EL5
250	160	1.5	18	14.5	8.5	15	150.0	45	0.8	FGG2EJ155E++2EL5
250	160	1.5	26	16.5	7	22.5	150.0	20	0.8	FGG2EJ155F++2FL5
250	160	1.8	26	16.5	7	22.5	180.0	20	0.8	FGG2EJ185F++2FL5
250	160	2.2	26	17	8.5	22.5	220.0	20	0.8	FGG2EJ225F++2FL5
250	160	3.3	26	20	11	22.5	132.0	20	0.8	FGG2EJ335F++2FL5
250	160	3.3	32	18	9	27.5	132.0	15	0.8	FGG2EJ335G++2GL5
250	160	4.7	32	20	11	27.5	188.0	15	0.8	FGG2EJ475G++2GL5
250	160	6.8	32	22	13	27.5	272.0	15	0.8	FGG2EJ685G++2GL5
250	160	10	32	25	16	27.5	400.0	15	0.8	FGG2EJ106G++2GL5

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Metallized Polyester Film Capacitor (Plastic Case) DC and Pulse Applications

FGG Series

Technical data

Vdc	Vac	Cap	Dimensions			Lead Spacing	Peak	dv/dt	Lead	Part Number
		Value	W	H	T	P	Current		Wire	
		μF	mm	mm	mm	mm	A		mm	
400	220	0.01	10.5	8.5	3.5	7.5	12.0	180	0.5	FGG2GJ103B++2BL5
400	220	0.01	13	9	4	10	12.0	150	0.6	FGG2GJ103C++2CL5
400	220	0.015	10.5	8.5	3.5	7.5	18.0	180	0.5	FGG2GJ153B++2BL5
400	220	0.015	13	9	4	10	18.0	150	0.6	FGG2GJ153C++2CL5
400	220	0.022	10.5	8.5	3.5	7.5	26.4	180	0.5	FGG2GJ223B++2BL5
400	220	0.022	13	9	4	10	26.4	150	0.6	FGG2GJ223C++2CL5
400	220	0.033	10.5	8.5	3.5	7.5	39.6	180	0.5	FGG2GJ333B++2BL5
400	220	0.033	13	9	4	10	39.6	150	0.6	FGG2GJ333C++2CL5
400	220	0.047	10.5	9	4	7.5	56.4	180	0.5	FGG2GJ473B++2BL5
400	220	0.047	13	9	4	10	37.6	150	0.6	FGG2GJ473C++2CL5
400	220	0.056	10.5	11	5	7.5	44.8	180	0.5	FGG2GJ563B++2BL5
400	220	0.056	13	9	4	10	44.8	150	0.6	FGG2GJ563C++2CL5
400	220	0.068	10.5	11	5	7.5	54.4	180	0.5	FGG2GJ683B++2BL5
400	220	0.068	13	11	5	10	54.4	150	0.6	FGG2GJ683C++2CL5
400	220	0.082	10.5	12	6	7.5	65.6	180	0.5	FGG2GJ823B++2BL5
400	220	0.082	13	11	5	10	65.6	150	0.6	FGG2GJ823C++2CL5
400	220	0.1	10.5	12	6	7.5	80.0	180	0.5	FGG2GJ104B++2BL5
400	220	0.1	13	11	5	10	80.0	150	0.6	FGG2GJ104C++2CL5
400	220	0.12	13	12	6	10	96.0	180	0.6	FGG2GJ124C++2CL5
400	220	0.15	13	12	6	10	120.0	150	0.6	FGG2GJ154C++2CL5
400	220	0.15	18	11	5	15	45.0	65	0.6	FGG2GJ154E++2EL5
400	220	0.18	18	12	6	15	54.0	65	0.6	FGG2GJ184E++2EL5
400	220	0.22	18	12	6	15	66.0	65	0.6	FGG2GJ224E++2EL5
400	220	0.33	18	13.5	7.5	15	99.0	65	0.8	FGG2GJ334E++2EL5
400	220	0.47	18	14.5	7.5	15	141.0	65	0.8	FGG2GJ474E++2EL5
400	220	0.56	18	16	10	15	72.8	65	0.8	FGG2GJ564E++2EL5
400	220	0.68	18	19	11	15	88.4	65	0.8	FGG2GJ684E++2EL5
400	220	0.68	26	16.5	7	22.5	88.4	30	0.8	FGG2GJ684F++2FL5
400	220	0.82	26	17	8.5	22.5	106.6	30	0.8	FGG2GJ824F++2FL5
400	220	1	26	19	10	22.5	130.0	30	0.8	FGG2GJ105F++2FL5
400	220	1.5	26	22	12	22.5	195.0	30	0.8	FGG2GJ155F++2FL5
400	220	1.5	32	20	11	27.5	105.0	25	0.8	FGG2GJ155G++2GL5
400	220	1.8	32	20	11	27.5	126.0	25	0.8	FGG2GJ155G++2GL5
400	220	2.2	32	22	13	27.5	154.0	25	0.8	FGG2GJ225G++2GL5
400	220	3.3	32	25	16	27.5	231.0	25	0.8	FGG2GJ335G++2GL5
400	220	4.7	32	28	16	27.5	329.0	25	0.8	FGG2GJ475G++2GL5
400	220	6.8	32	33	18	27.5	476.0	25	0.8	FGG2GJ685G++2GL5

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Metallized Polyester Film Capacitor (Plastic Case) DC and Pulse Applications

FGG Series

Technical data

Vdc	Vac	Cap	Dimensions			Lead Spacing	Peak	dv/dt	Lead	Part Number
		Value	W	H	T	P	Current		Wire	
		μF	mm	mm	mm	mm	A		V/us	
630	250	0.001	10.5	8.5	3.5	7.5	1.5	250	0.5	FGG2LJ102B++2BL5
630	250	0.001	13	9	4	10	1.5	200	0.6	FGG2LJ102C++2CL5
630	250	0.0015	10.5	8.5	3.5	7.5	2.3	250	0.6	FGG2LJ152B++2BL5
630	250	0.0015	13	9	4	10	2.3	200	0.6	FGG2LJ152C++2CL5
630	250	0.0022	10.5	8.5	3.5	7.5	2.2	250	0.6	FGG2LJ222B++2BL5
630	250	0.0022	13	9	4	10	2.2	200	0.6	FGG2LJ222C++2CL5
630	250	0.0033	10.5	8.5	3.5	7.5	3.3	250	0.6	FGG2LJ332B++2BL5
630	250	0.0033	13	9	4	10	3.3	200	0.6	FGG2LJ332C++2CL5
630	250	0.0047	10.5	8.5	3.5	7.5	4.7	250	0.6	FGG2LJ472B++2BL5
630	250	0.0047	13	9	4	10	4.7	200	0.6	FGG2LJ472C++2CL5
630	250	0.0068	10.5	8.5	3.5	7.5	6.8	250	0.8	FGG2LJ682B++2BL5
630	250	0.0068	13	9	4	10	6.8	200	0.8	FGG2LJ682C++2CL5
630	250	0.0082	10.5	8.5	3.5	7.5	8.2	250	0.8	FGG2LJ822B++2BL5
630	250	0.0082	13	9	4	10	8.2	200	0.8	FGG2LJ822C++2CL5
630	250	0.01	10.5	8.5	3.5	7.5	10.0	250	0.8	FGG2LJ103B++2BL5
630	250	0.01	13	9	4	10	4.0	200	0.8	FGG2LJ103C++2CL5
630	250	0.015	10.5	9	4	7.5	6.0	250	0.8	FGG2LJ153B++2BL5
630	250	0.015	13	9	4	10	6.0	200	0.8	FGG2LJ153C++2CL5
630	250	0.022	10.5	11	5	7.5	8.8	250	0.8	FGG2LJ223B++2BL5
630	250	0.022	13	9	4	10	4.0	200	0.8	FGG2LJ223C++2CL5
630	250	0.033	10.5	12	6	7.5	5.9	250	0.8	FGG2LJ333B++2BL5
630	250	0.033	13	11	5	10	5.9	200	0.8	FGG2LJ333C++2CL5
630	250	0.039	10.5	12	6	7.5	7.0	250	0.8	FGG2LJ393B++2BL5
630	250	0.039	13	11	5	10	7.0	200	0.8	FGG2LJ393C++2CL5
630	250	0.047	10.5	12	6	7.5	8.5	250	0.8	FGG2LJ473B++2BL5
630	250	0.047	13	11	5	10	8.5	200	0.8	FGG2LJ473C++2CL5
630	250	0.068	13	12	6	10	6.1	200	1.0	FGG2LJ683C++2CL5
630	250	0.082	18	11	5	15	7.4	90	1.0	FGG2LJ823E++2EL5
630	250	0.1	18	12	6	15	9.0	90	1.0	FGG2LJ104E++2EL5
630	250	0.15	18	13.5	7.5	15	13.5	90	1.0	FGG2LJ154E++2EL5
630	250	0.18	18	14.5	8.5	15	16.2	90	1.0	FGG2LJ184E++2EL5
630	250	0.22	18	16	10	15	19.8	90	1.0	FGG2LJ224E++2EL5
630	250	0.33	18	19	11	15	29.7	90	1.0	FGG2LJ334E++2EL5
630	250	0.47	26	17	8.5	22.5	42.3	35	1.0	FGG2LJ474F++2FL5
630	250	0.56	26	19	10	22.5	50.4	35	1.0	FGG2LJ564F++2FL5
630	250	0.68	26	22	12	22.5	61.2	35	1.0	FGG2LJ684F++2FL5
630	250	0.82	32	20	11	27.5	73.8	35	1.0	FGG2LJ824F++2FL5
630	250	1.0	32	22	13	27.5	90.0	35	1.0	FGG2LJ105F++2FL5

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