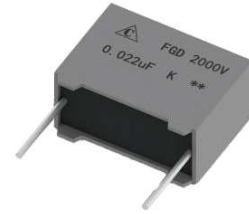


High Voltage Metallized Polypropylene Film /Foil Capacitor (Plastic Case) Pulse/High Frequency Applications

FGD Series

Overview

The FGD series is non-inductively wound with metallized polypropylene film in series with aluminum foil, polypropylene film, and encapsulated in plastic case and sealed with epoxy resin. They are suitable for applications require rectangular shape.



Applications

- Monitors (S-correction and flyback tuning).
- Ballasts and compact lamps.
- Snubber and silicon-controlled rectifier.
- High frequency, DC and pulse circuits.

Features

- High ripple current
- Self-healing property
- Low losses
- High dv/dt
- High contact reliability
- Suitable for high frequency applications

Specifications

Items	Characteristics
Reference Standard	IEC 60384-17
Climatic Category	40/105/56 IEC 60068-1
Operating Temperature Range	-40°C to +105°C
Rated Voltage	1000Vdc ~ 2000Vdc
Capacitance Range	0.00015μF ~ 0.082μF
Capacitance Tolerance	±3%, ±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	IR x C ≥ 50,000 Seconds 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
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 : ≤±2% 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 : ≤±2% 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 V/us	Lead Wire mm	Part Number
		Value	W	H	T	P	Current			
		μF	mm	mm	mm	mm	A			
1000	400	0.0033	18	11	5	15	92.4	28000	0.6	FGD3KJ332E++2EL5
1000	400	0.0039	18	11	5	15	109.2	28000	0.6	FGD3KJ392E++2EL5
1000	400	0.0047	18	11	5	15	131.6	28000	0.6	FGD3KJ472E++2EL5
1000	400	0.0056	18	11	5	15	156.8	28000	0.6	FGD3KJ562E++2EL5
1000	400	0.0068	18	11	5	15	190.4	28000	0.6	FGD3KJ682E++2EL5
1000	400	0.0082	18	11	5	15	229.6	28000	0.6	FGD3KJ822E++2EL5
1000	400	0.01	18	12	6	15	280.0	28000	0.6	FGD3KJ103E++2EL5
1000	400	0.012	18	12	6	15	336.0	28000	0.6	FGD3KJ123E++2EL5
1000	400	0.015	18	13.5	7.5	15	420.0	28000	0.8	FGD3KJ153E++2EL5
1000	400	0.018	18	14.5	8.5	15	504.0	28000	0.8	FGD3KJ183E++2EL5
1000	400	0.022	18	14.5	8.5	15	616.0	28000	0.8	FGD3KJ223E++2EL5
1000	400	0.027	18	16	10	15	756.0	28000	0.8	FGD3KJ273E++2EL5
1000	400	0.033	26	16.5	7	22.5	363.0	11000	0.8	FGD3KJ333F++2FL5
1000	400	0.039	26	17	8.5	22.5	429.0	11000	0.8	FGD3KJ393F++2FL5
1000	400	0.047	26	19	10	22.5	517.0	11000	0.8	FGD3KJ473F++2FL5
1000	400	0.056	26	19	10	22.5	616.0	11000	0.8	FGD3KJ564F++2FL5
1000	400	0.068	26	20	11	22.5	748.0	11000	0.8	FGD3KJ683F++2FL5
1250	450	0.0022	18	11	5	15	66.0	30000	0.6	FGD3RJ222E++2EL5
1250	450	0.0027	18	11	5	15	81.0	30000	0.6	FGD3RJ272E++2EL5
1250	450	0.0033	18	12	6	15	99.0	30000	0.6	FGD3RJ332E++2EL5
1250	450	0.0039	18	12	6	15	117.0	30000	0.6	FGD3RJ392E++2EL5
1250	450	0.0047	18	13.5	7.5	15	141.0	30000	0.8	FGD3RJ472E++2EL5
1250	450	0.0056	18	13.5	7.5	15	168.0	30000	0.8	FGD3RJ562E++2EL5
1250	450	0.0068	18	14.5	8.5	15	204.0	30000	0.8	FGD3RJ682E++2EL5
1250	450	0.0082	18	16	10	15	246.0	30000	0.8	FGD3RJ822E++2EL5
1250	450	0.01	26	16.5	7	22.5	110.0	11000	0.8	FGD3RJ103F++2FL5
1250	450	0.012	26	16.5	7	22.5	132.0	11000	0.8	FGD3RJ123F++2FL5
1250	450	0.015	26	16.5	7	22.5	165.0	11000	0.8	FGD3RJ153F++2FL5
1250	450	0.018	26	16.5	7	22.5	198.0	11000	0.8	FGD3RJ183F++2FL5
1250	450	0.022	26	17	8.5	22.5	242.0	11000	0.8	FGD3RJ223F++2FL5
1250	450	0.027	26	19	10	22.5	297.0	11000	0.8	FGD3RJ273F++2FL5
1250	450	0.033	26	19	10	22.5	363.0	11000	0.8	FGD3RJ333F++2FL5
1250	450	0.039	32	18	9	27.5	429.0	11000	0.8	FGD3RJ393G++2GL5
1250	450	0.047	32	20	11	27.5	517.0	11000	0.8	FGD3RJ473G++2GL5
1250	450	0.056	32	20	11	27.5	616.0	11000	0.8	FGD3RJ563G++2GL5
1250	450	0.068	32	22	13	27.5	748.0	11000	0.8	FGD3RJ683G++2GL5
1250	450	0.082	32	24.5	13	27.5	902.0	11000	0.8	FGD3RJ823G++2GL5

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FGD Series

■ Technical data

Vdc	Vac	Cap	Dimensions			Lead Spacing	Peak	dv/dt V/us	Lead Wire mm	Part Number
		Value	W	H	T	P	Current			
		μF	mm	mm	mm	mm	A			
1600	500	0.001	18	11	5	15	34.0	34000	0.6	FGD3WJ102E++2EL5
1600	500	0.0012	18	11	5	15	40.8	34000	0.6	FGD3WJ122E++2EL5
1600	500	0.0015	18	11	5	15	51.0	34000	0.6	FGD3WJ152E++2EL5
1600	500	0.0018	18	11	5	15	61.2	34000	0.6	FGD3WJ182E++2EL5
1600	500	0.0022	18	12	6	15	74.8	34000	0.6	FGD3WJ222E++2EL5
1600	500	0.0027	18	12	6	15	91.8	34000	0.6	FGD3WJ272E++2EL5
1600	500	0.0033	18	13.5	7.5	15	112.2	34000	0.8	FGD3WJ332E++2EL5
1600	500	0.0039	18	13.5	7.5	15	132.6	34000	0.8	FGD3WJ392E++2EL5
1600	500	0.0047	18	14.5	8.5	15	159.8	34000	0.8	FGD3WJ472E++2EL5
1600	500	0.0056	18	16	10	15	190.4	34000	0.8	FGD3WJ562E++2EL5
1600	500	0.0068	18	16	10	15	231.2	34000	0.8	FGD3WJ682E++2EL5
1600	500	0.0082	26	16.5	7	22.5	90.2	11000	0.8	FGD3WJ822F++2FL5
1600	500	0.01	26	16.5	7	22.5	110.0	11000	0.8	FGD3WJ103F++2FL5
1600	500	0.012	26	16.5	7	22.5	132.0	11000	0.8	FGD3WJ123F++2FL5
1600	500	0.015	26	17	8.5	22.5	165.0	11000	0.8	FGD3WJ153F++2FL5
1600	500	0.018	26	17	8.5	22.5	198.0	11000	0.8	FGD3WJ183F++2FL5
1600	500	0.022	26	19	10	22.5	242.0	11000	0.8	FGD3WJ223F++2FL5
1600	500	0.027	32	18	9	27.5	297.0	11000	0.8	FGD3WJ273G++2GL5
1600	500	0.033	32	20	11	27.5	363.0	11000	0.8	FGD3WJ333G++2GL5
1600	500	0.039	32	20	11	27.5	429.0	11000	0.8	FGD3WJ393G++2GL5
1600	500	0.047	32	22	13	27.5	517.0	11000	0.8	FGD3WJ473G++2GL5
1600	500	0.056	32	22	13	27.5	616.0	11000	0.8	FGD3WJ563G++2GL5
2000	550	0.00015	18	11	5	15	8.1	54000	0.6	FGD3DJ151E++2EL5
2000	550	0.00022	18	11	5	15	11.9	54000	0.6	FGD3DJ221E++2EL5
2000	550	0.00033	18	11	5	15	17.8	54000	0.6	FGD3DJ331E++2EL5
2000	550	0.00047	18	11	5	15	25.4	54000	0.6	FGD3DJ471E++2EL5
2000	550	0.00068	18	11	5	15	36.7	54000	0.6	FGD3DJ681E++2EL5
2000	550	0.001	18	12	6	15	54.0	54000	0.6	FGD3DJ102E++2EL5
2000	550	0.0012	18	12	6	15	64.8	54000	0.6	FGD3DJ122E++2EL5
2000	550	0.0015	18	13.5	7.5	15	81.0	54000	0.8	FGD3DJ152E++2EL5
2000	550	0.0018	18	13.5	7.5	15	61.2	34000	0.8	FGD3DJ182E++2EL5
2000	550	0.0022	18	14.5	8.5	15	74.8	34000	0.8	FGD3DJ222E++2EL5
2000	550	0.0027	18	16	10	15	91.8	34000	0.8	FGD3DJ272E++2EL5
2000	550	0.0033	26	16.5	7	22.5	36.3	11000	0.8	FGD3DJ332F++2FL5
2000	550	0.0039	26	16.5	7	22.5	42.9	11000	0.8	FGD3DJ392F++2FL5
2000	550	0.0047	26	16.5	7	22.5	51.7	11000	0.8	FGD3DJ472F++2FL5
2000	550	0.0056	26	16.5	7	22.5	61.6	11000	0.8	FGD3DJ562F++2FL5
2000	550	0.0068	26	17	8.5	22.5	74.8	11000	0.8	FGD3DJ682F++2FL5
2000	550	0.0082	26	17	8.5	22.5	90.2	11000	0.8	FGD3DJ822F++2FL5
2000	550	0.01	26	19	10	22.5	110.0	11000	0.8	FGD3DJ103F++2FL5
2000	550	0.012	26	20	11	22.5	132.0	11000	0.8	FGD3DJ123F++2FL5
2000	550	0.015	32	20	11	27.5	165.0	11000	0.8	FGD3DJ153G++2GL5
2000	550	0.018	32	22	13	27.5	198.0	11000	0.8	FGD3DJ183G++2GL5
2000	550	0.022	32	22	13	27.5	242.0	11000	0.8	FGD3DJ223G++2GL5

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