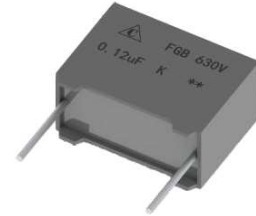


# Metallized Polypropylene Film Capacitor (Plastic Case) DC and Pulse Applications

## FGB Series

### Overview

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



### Applications

- Widely used in high frequency.
- DC/AC and pulse circuits.
- Ballasts and compact lamps.

### Features

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

### 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	100Vdc ~ 630Vdc
Capacitance Range	0.01µF ~ 33.0µF
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≤0.33uF)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 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 (Δtgδ):≤10 X 10 <sup>-4</sup> at 1KHz Insulation resistance: ≥50% of initial limit
Endurance Test	Test conditions & performance:
	Temperature: +105°C ±2°C Voltage applied:1.25 X V <sub>R</sub> (d.c.)
	Test duration : 1000 hours
	Capacitance change :≤±5% DF change (Δtgδ):≤10 X 10 <sup>-4</sup> at 1KHz Insulation resistance: ≥50% of initial limit

# Metallized Polypropylene Film Capacitor (Plastic Case) DC and Pulse Applications

## FGB Series

### ■ 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			
100	50	0,1	13	11	5	10	18,0	180	0,6	FGB1KJ104C++2CL5
100	50	0,12	13	11	5	10	21,6	180	0,6	FGB1KJ124C++2CL5
100	50	0,15	13	11	5	10	27,0	180	0,6	FGB1KJ154C++2CL5
100	50	0,18	13	12	6	10	32,4	180	0,6	FGB1KJ184C++2CL5
100	50	0,22	13	12	6	10	39,6	180	0,6	FGB1KJ224C++2CL5
100	50	0,27	18	12	6	15	27,0	100	0,6	FGB1KJ274E++2EL5
100	50	0,33	18	12	6	15	33,0	100	0,6	FGB1KJ334E++2EL5
100	50	0,39	18	13,5	7,5	15	39,0	100	0,8	FGB1KJ394E++2EL5
100	50	0,47	18	13,5	7,5	15	47,0	100	0,8	FGB1KJ474E++2EL5
100	50	0,56	18	14,5	8,5	15	56,0	100	0,8	FGB1KJ564E++2EL5
100	50	0,68	18	14,5	8,5	15	68,0	100	0,8	FGB1KJ684E++2EL5
100	50	0,82	18	16	10	15	82,0	100	0,8	FGB1KJ824E++2EL5
100	50	1,0	18	16	10	15	100,0	100	0,8	FGB1KJ105E++2EL5
100	50	1,2	26	17	8,5	22,5	72,0	60	0,8	FGB1KJ125F++2FL5
100	50	1,5	26	19	10	22,5	90,0	60	0,8	FGB1KJ155F++2FL5
100	50	1,8	26	19	10	22,5	108,0	60	0,8	FGB1KJ185F++2FL5
100	50	2,2	32	20	11	27,5	110,0	50	0,8	FGB1KJ225G++2GL5
100	50	2,7	32	20	11	27,5	135,0	50	0,8	FGB1KJ275G++2GL5
100	50	3,3	32	22	13	27,5	165,0	50	0,8	FGB1KJ335G++2GL5
100	50	3,9	32	22	13	27,5	195,0	50	0,8	FGB1KJ395G++2GL5
100	50	4,7	32	24,5	13	27,5	235,0	50	0,8	FGB1KJ475G++2GL5
100	50	5,6	32	28	14	27,5	280,0	50	0,8	FGB1KJ565G++2GL5
100	50	6,8	32	33	18	27,5	340,0	50	0,8	FGB1KJ685G++2GL5
100	50	8,2	32	33	18	27,5	410,0	50	0,8	FGB1KJ825G++2GL5
100	50	10	32	31	21	27,5	500,0	50	0,8	FGB1KJ106G++2GL5
100	50	10	32	37	22	27,5	500,0	50	0,8	FGB1KJ106G++2GL5
100	50	12	32	37	22	27,5	600,0	50	0,8	FGB1KJ126G++2GL5
100	50	12	42,5	32	19	37,5	420,0	35	1,0	FGB1KJ126K++2KL5
100	50	15	42,5	40	20	37,5	525,0	35	1,0	FGB1KJ156K++2KL5
100	50	18	42,5	40	20	37,5	630,0	35	1,0	FGB1KJ186K++2KL5
100	50	22	42,5	44	24	37,5	770,0	35	1,0	FGB1KJ226K++2KL5
100	50	27	42,5	45	30	37,5	945,0	35	1,0	FGB1KJ276K++2KL5
100	50	33	42,5	45	30	37,5	1155,0	35	1,0	FGB1KJ336K++2KL5

DC Film Capacitors

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# Metallized Polypropylene Film Capacitor (Plastic Case)

## DC and Pulse Applications

### FGB Series

#### ■ 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			
250	160	0.033	13	11	5	10	18.2	550	0.6	FGB2EJ333C++2CL5
250	160	0.039	13	11	5	10	21.5	550	0.6	FGB2EJ393C++2CL5
250	160	0.047	13	11	5	10	25.9	550	0.6	FGB2EJ473C++2CL5
250	160	0.056	13	11	5	10	30.8	550	0.6	FGB2EJ563C++2CL5
250	160	0.068	13	11	5	10	37.4	550	0.6	FGB2EJ683C++2CL5
250	160	0.082	13	11	5	10	45.1	550	0.6	FGB2EJ823C++2CL5
250	160	0.1	13	11	5	10	55.0	550	0.6	FGB2EJ104C++2CL5
250	160	0.12	13	12	6	10	66.0	550	0.6	FGB2EJ124C++2CL5
250	160	0.15	13	12	6	10	82.5	550	0.6	FGB2EJ154C++2CL5
250	160	0.18	18	11	5	15	54.0	300	0.6	FGB2EJ184E++2EL5
250	160	0.22	18	11	5	15	66.0	300	0.6	FGB2EJ224E++2EL5
250	160	0.27	18	12	6	15	81.0	300	0.6	FGB2EJ274E++2EL5
250	160	0.33	18	12	6	15	99.0	300	0.6	FGB2EJ334E++2EL5
250	160	0.39	18	13.5	7.5	15	117.0	300	0.8	FGB2EJ394E++2EL5
250	160	0.47	18	13.5	7.5	15	141.0	300	0.8	FGB2EJ474E++2EL5
250	160	0.56	18	13.5	7.5	15	168.0	300	0.8	FGB2EJ564E++2EL5
250	160	0.68	18	14.5	8.5	15	204.0	300	0.8	FGB2EJ684E++2EL5
250	160	0.82	18	16	10	15	246.0	300	0.8	FGB2EJ824E++2EL5
250	160	1	18	16	10	15	300.0	300	0.8	FGB2EJ105E++2EL5
250	160	1.2	18	19	11	15	360.0	300	0.8	FGB2EJ125E++2EL5
250	160	1.2	26	17	8.5	22.5	150.0	125	0.8	FGB2EJ125F++2FL5
250	160	1.5	26	19	10	22.5	187.5	125	0.8	FGB2EJ155F++2FL5
250	160	1.8	26	19	10	22.5	225.0	125	0.8	FGB2EJ185F++2FL5
250	160	2.2	26	20	11	22.5	275.0	125	0.8	FGB2EJ225F++2FL5
250	160	2.7	26	23	13	22.5	337.5	125	0.8	FGB2EJ275F++2FL5
250	160	3.3	26	23	13	22.5	412.5	125	0.8	FGB2EJ335F++2FL5
250	160	3.9	32	22	13	27.5	390.0	100	0.8	FGB2EJ395G++2GL5
250	160	4.7	32	24.5	13	27.5	470.0	100	0.8	FGB2EJ475G++2GL5
250	160	5.6	32	28	14	27.5	560.0	100	0.8	FGB2EJ565G++2GL5
250	160	6.8	32	33	18	27.5	680.0	100	0.8	FGB2EJ685G++2GL5
250	160	8.2	32	33	18	27.5	820.0	100	0.8	FGB2EJ825G++2GL5
250	160	10	32	37	22	27.5	1000.0	100	0.8	FGB2EJ106G++2GL5
250	160	12	42	32	19	37.5	480.0	40	1.0	FGB2EJ126K++2KL5
250	160	15	42	40	20	37.5	600.0	40	1.0	FGB2EJ156K++2KL5
250	160	22	42	44	22	37.5	880.0	40	1.0	FGB2EJ226K++2KL5
250	160	30	42	45	30	37.5	1200.0	40	1.0	FGB2EJ306K++2KL5

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# Metallized Polypropylene Film Capacitor (Plastic Case) DC and Pulse Applications

## FGB 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			
400	220	0,015	13	11	5	10	18,0	1200	0,6	FGB2GJ153C++2CL5
400	220	0,018	13	11	5	10	21,6	1200	0,6	FGB2GJ183C++2CL5
400	220	0,022	13	11	5	10	26,4	1200	0,6	FGB2GJ223C++2CL5
400	220	0,027	13	11	5	10	32,4	1200	0,6	FGB2GJ273C++2CL5
400	220	0,033	13	11	5	10	39,6	1200	0,6	FGB2GJ333C++2CL5
400	220	0,039	13	11	5	10	46,8	1200	0,6	FGB2GJ393C++2CL5
400	220	0,047	13	11	5	10	56,4	1200	0,6	FGB2GJ473C++2CL5
400	220	0,056	13	12	6	10	67,2	1200	0,6	FGB2GJ563C++2CL5
400	220	0,068	13	12	6	10	81,6	1200	0,6	FGB2GJ683C++2CL5
400	220	0,082	18	11	5	15	65,6	800	0,6	FGB2GJ823E++2EL5
400	220	0,10	18	11	5	15	80,0	800	0,6	FGB2GJ104E++2EL5
400	220	0,12	18	12	6	15	96,0	800	0,6	FGB2GJ124E++2EL5
400	220	0,15	18	12	6	15	120,0	800	0,6	FGB2GJ154E++2EL5
400	220	0,18	18	13,5	7,5	15	144,0	800	0,8	FGB2GJ184E++2EL5
400	220	0,22	18	13,5	7,5	15	176,0	800	0,8	FGB2GJ224E++2EL5
400	220	0,27	18	13,5	7,5	15	216,0	800	0,8	FGB2GJ274E++2EL5
400	220	0,33	18	14,5	8,5	15	264,0	800	0,8	FGB2GJ334E++2EL5
400	220	0,39	18	16	10	15	312,0	800	0,8	FGB2GJ394E++2EL5
400	220	0,47	18	16	10	15	376,0	800	0,8	FGB2GJ474E++2EL5
400	220	0,56	18	19	11	15	448,0	800	0,8	FGB2GJ564E++2EL5
400	220	0,68	26	19	10	22,5	204,0	300	0,8	FGB2GJ684F++2FL5
400	220	0,82	26	19	10	22,5	246,0	300	0,8	FGB2GJ824F++2FL5
400	220	1	26	20	11	22,5	300,0	300	0,8	FGB2GJ105F++2FL5
400	220	1,2	26	23	13	22,5	360,0	300	0,8	FGB2GJ125F++2FL5
400	220	1,5	26	23	13	22,5	450,0	300	0,8	FGB2GJ155F++2FL5
400	220	1,8	32	22	13	27,5	234,0	130	0,8	FGB2GJ185G++2GL5
400	220	2,2	32	24,5	13	27,5	286,0	130	0,8	FGB2GJ225G++2GL5
400	220	2,7	32	28	14	27,5	351,0	130	0,8	FGB2GJ275G++2GL5
400	220	3,3	32	33	18	27,5	429,0	130	0,8	FGB2GJ335G++2GL5
400	220	3,9	32	33	18	27,5	507,0	130	0,8	FGB2GJ395G++2GL5
400	220	4,7	32	37	22	27,5	611,0	130	0,8	FGB2GJ475G++2GL5
400	220	5,6	42	32	19	37,5	392,0	70	1,0	FGB2GJ565K++2KL5
400	220	6,8	42	40	20	37,5	476,0	70	1,0	FGB2GJ685K++2KL5
400	220	8,2	42	40	20	37,5	574,0	70	1,0	FGB2GJ825K++2KL5
400	220	10	42	44	22	37,5	700,0	70	1,0	FGB2GJ106K++2KL5
400	220	12	42	45	30	37,5	840,0	70	1,0	FGB2GJ126K++2KL5

DC Film Capacitors

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# Metallized Polypropylene Film Capacitor (Plastic Case) DC and Pulse Applications

## FGB Series

### ■ 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			
630	250	0.01	13	11	5	10	15.0	1500	0.6	FGB2LJ103C++2CL5
630	250	0.012	13	11	5	10	18.0	1500	0.6	FGB2LJ123C++2CL5
630	250	0.015	13	11	5	10	22.5	1500	0.6	FGB2LJ153C++2CL5
630	250	0.018	13	11	5	10	27.0	1500	0.6	FGB2LJ183C++2CL5
630	250	0.022	13	12	6	10	33.0	1500	0.6	FGB2LJ223C++2CL5
630	250	0.027	18	11	5	15	27.0	1000	0.6	FGB2LJ273E++2EL5
630	250	0.033	18	11	5	15	33.0	1000	0.6	FGB2LJ333E++2EL5
630	250	0.039	18	11	5	15	39.0	1000	0.6	FGB2LJ393E++2EL5
630	250	0.047	18	11	5	15	47.0	1000	0.6	FGB2LJ473E++2EL5
630	250	0.056	18	11	5	15	56.0	1000	0.6	FGB2LJ563E++2EL5
630	250	0.068	18	12	6	15	68.0	1000	0.6	FGB2LJ683E++2EL5
630	250	0.082	18	12	6	15	82.0	1000	0.6	FGB2LJ823E++2EL5
630	250	0.1	18	13.5	7.5	15	100.0	1000	0.8	FGB2LJ104E++2EL5
630	250	0.12	18	13.5	7.5	15	120.0	1000	0.8	FGB2LJ124E++2EL5
630	250	0.15	18	14.5	8.5	15	150.0	1000	0.8	FGB2LJ154E++2EL5
630	250	0.18	18	16	10	15	180.0	1000	0.8	FGB2LJ184E++2EL5
630	250	0.22	18	16	10	15	220.0	1000	0.8	FGB2LJ224E++2EL5
630	250	0.27	18	19	11	15	270.0	1000	0.8	FGB2LJ274E++2EL5
630	250	0.33	18	19	11	15	330.0	1000	0.8	FGB2LJ334E++2EL5
630	250	0.39	26	19	10	22.5	156.0	400	0.8	FGB2LJ394F++2FL5
630	250	0.47	26	20	11	22.5	188.0	400	0.8	FGB2LJ474F++2FL5
630	250	0.56	26	20	11	22.5	224.0	400	0.8	FGB2LJ564F++2FL5
630	250	0.68	26	23	13	22.5	272.0	400	0.8	FGB2LJ684F++2FL5
630	250	0.82	32	22	13	27.5	147.6	180	0.8	FGB2LJ824G++2GL5
630	250	1.0	32	22	13	27.5	180.0	180	0.8	FGB2LJ105G++2GL5
630	250	1.2	32	28	14	27.5	216.0	180	0.8	FGB2LJ125G++2GL5
630	250	1.5	32	28	14	27.5	270.0	180	0.8	FGB2LJ155G++2GL5
630	250	1.8	32	33	18	27.5	324.0	180	0.8	FGB2LJ185G++2GL5
630	250	2.2	32	33	18	27.5	396.0	180	0.8	FGB2LJ225G++2GL5
630	250	2.7	32	37	22	27.5	486.0	180	0.8	FGB2LJ275G++2GL5
630	250	3.3	42	32	19	37.5	297.0	90	1.0	FGB2LJ335K++2KL5
630	250	3.9	42	40	20	37.5	351.0	90	1.0	FGB2LJ395K++2KL5
630	250	4.7	42	40	20	37.5	423.0	90	1.0	FGB2LJ475K++2KL5
630	250	5.6	42	44	22	37.5	504.0	90	1.0	FGB2LJ565K++2KL5
630	250	6.8	42	45	30	37.5	612.0	90	1.0	FGB2LJ685K++2KL5

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