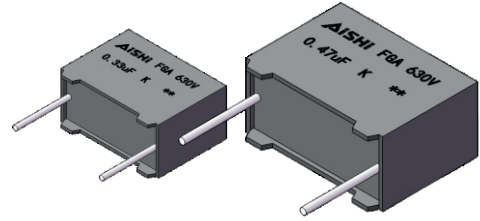


Metallized Polypropylene Film Capacitor (Plastic Case) PFC Applications

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 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 (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 |

Metallized Polypropylene Film Capacitor (Plastic Case) PFC Applications

FGA 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 | | | |
| 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 |

* Customized products are available by request, contact us for more details.

* Specification are subject to change, please refer to approved data sheets.

Metallized Polypropylene Film Capacitor (Plastic Case) PFC Applications

FGA 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 | 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 |

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