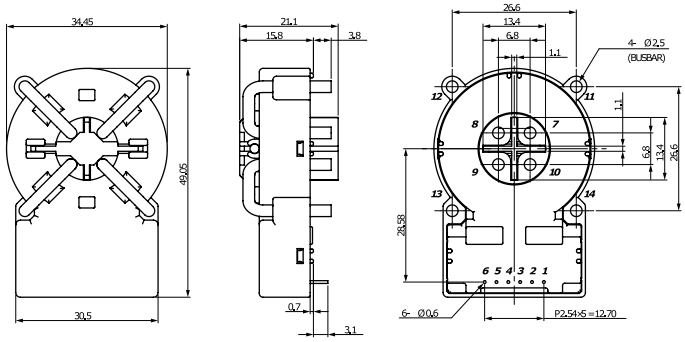
# FG-R02-4BA

Aliases (USETR024BAA000)

KEMET, FG-R02, Current, Through-Hole, Residual Current, Open-loop, Fluxgate-Based Current Detection, PCB Mounting




Click here for the 3D model.

| General Information | |
|---|---|
| Series | FG-R02 |
| Type | Current |
| Style | Through-Hole |
| Description | Fluxgate-Based Residual Current Sensor |
| Features | Open-loop, Fluxgate-Based Current Detection, PCB Mounting |
| Lead | 6 Pin |
| RoHS | Yes |
| REACH | Yes |
| Qualifications | IEC |
| Storage Temperature Range | -40/+105°C |

| Dimensions | |
|---|---|
| D | 34.45mm NOM |
| L | 34.45mm MAX |
| W | 49.05mm MAX |
| T | 15.1mm MAX |
| LL | 3.1mm MAX |

| Packaging Specifications | |
|---|---|
| Packaging | Tray, Box |
| Packaging Quantity | 300 |
| Typical Component Weight | 30 g |

| Specifications | |
|---|---|
| Temperature Range | -40/+105°C |
| Voltage DC | 2.25 V (PIN3, Analog Output; typical) |
| Power Supply Voltage | 5 V +/- 5% |
| Current | 6 mA (MAX; DC Detection), 30 mArms (MAX, 55 Hz; AC Detection) |
| Sensitivity | 40 V/A (PIN3, AOUT; typical) |
| Frequency Range | 150 Hz MAX (at -3 dB; PIN3 AOUT) |
| Measuring Range | +/-50 mA |
| AC Alarm Response Time | 60 typical, 250 maximum (ms, @30 mArms); 20 typical, 100 maximum (ms, @60 mArms); 8 typical, 15 maximum (ms, @150 mArms); 7 typical, 10 maximum (ms, > 5 Arms) |
| DC Alarm Response Time | 280 typical, 1000 maximum (ms, @6 mA); 24 typical, 250 maximum (ms, @60 mA); 6 typical, 15 maximum (ms, @300 mA) |

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