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| 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                                                |

| 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), 20 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, 20 maximum (ms, @150 mArms); 7 typical, 10 maximum (ms, @264 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)                                                                                       |

| 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      |

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