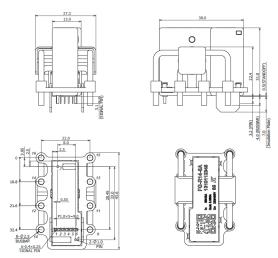


## FG-R14-6A

Aliases (USETR146AA0000)

KEMET, FG-R14, Current, Through-Hole, Residual Current, Open-loop, Fluxgate-Based Current Detection, PCB Mounting



Click here for the 3D model.

| Dimensions |            |
|------------|------------|
| L          | 31mm MAX   |
| W          | 43.6mm MAX |
| Т          | 27.3mm MAX |
| LL         | 3.2mm MAX  |

| Packaging Specifications |           |
|--------------------------|-----------|
| Packaging                | Tray, Box |
| Packaging Quantity       | 150       |
| Typical Component Weight | 32 g      |

| General Information       |   |
|---------------------------|---|
| Series                    | FG-R14  |
| Туре                      | Current   |
| Style                     | Through-Hole  |
| Description               | Fluxgate-Based Residual<br>Current Sensor                       |
| Features                  | Open-loop, Fluxgate-Based<br>Current Detection, PCB<br>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<br>mArms (MAX, 55 Hz; AC<br>Detection)  |
| Sensitivity            | 40 V/A (PIN3, AOUT; typical)   |
| Measuring Range        | +/-50 mA   |
| AC Alarm Response Time | 60 typical, 250 maximum (ms, @30 mArms); 25 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 | 695 typical, 1000 maximum (ms,<br>@6 mA); 40 typical, 250<br>maximum (ms, @60 mA); 6<br>typical, 10 maximum (ms, @300<br>mA)   |
|                        |  |

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

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