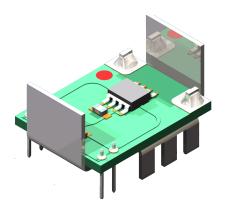


ISE Current Sense Transducers: ISE-XXX-A-800

For the electronic measurement of AC and DC Signals





Part Number	I _P	Output Slope*
ISE-050-A-800	+/- 50	40.000 mV/A
ISE-100-A-800	+/- 100	20.000 mV/A
ISE-150-A-800	+/- 150	13.333 mV/A
ISE-200-A-800	+/- 200	10.000 mV/A

Supply Voltage (V _{dd})	5V(+/- 0.5 V)@12mA
Secondary Output Voltage	Ratiometric to Input
Output at +Ip	90% of V_{dd}
Output at -lp	10% of V_{dd}
Output at 0A	50% of V_{dd}
Max Clamped Output High	98% of V

Max. Clamped Output, High 98% of V_{dd} Max. Clamped Output, Low 5% of V_{dd} Output Current +/- 2 mA Response Time 3 μ S

Accuracy

<= 0.6 %
<= 0.1 %
<= 10 mV; <= 0.25 %
<= 10 mV; <= 0.25 %
<= 0.1 mV/°C

General Data Ambient Operating Temperature

, and one operating remperature	10 10 100 0
Ambient Storage Temperature	-40 to +130 °C
Creepage Distance	1.4mm
Clearance Distance	1.4mm
Safety Standard	EN50178
EMC Standard	EN61000
СТІ	600 V
UL File	Pending

Features

- ◆ Fast Response Time
- ♦ Small Size
- ◆ PCB Mounting

IS Family Features

- ◆ Factory Programmable
- ◆ Customizable Current Range
- ◆ Wideband DC to 200 kHz
- ◆ Analog Output

Applications

- ◆ DC/AC Converters
- ◆ DC/DC Converters
- ◆ Battery Management
- ◆ AC and DC Motor Drives
- ♦ Welding Applications
- ◆ Solar Applications

Pin Configuration

1 - V_{SS} (Ground) 2 - V_{DD} (Supply) 3 & 4 - Busbar Termination 5 - Output 6 - V_{SS} (Ground)

n Analog Output Notes

- 1. For pull down resistor is between Pin 5 and Pin 1 or 6
- 2. For pull up resistor is between Pin 5 and Pin 2

-40 to +130 °C



Absolute Maximums

Notes

Overvoltage V_{DD} Protection. +10 V * All specifications at 25°C and assumes $5V_{DD}$.

Reverse V_{DD} Protection -10 V * Specifications dependent on mechanical attachment.

Output Voltage Max. +10 V * Specifications are % full scale.

Output Current Max. +/- 70 mA * Output slope is dependent on V_{DD}.

Reverse Output Voltage Max. - 0.3 V

Reverse Output Current Max. -50 mA

Dimensions: ISE Series (in mm, 1mm = 0.0394 inch)

