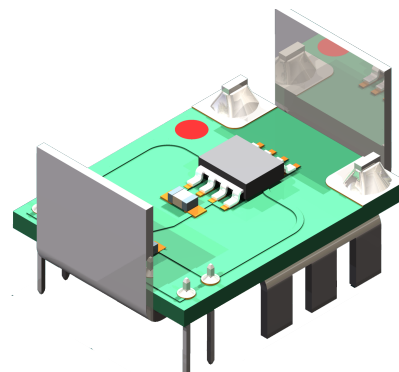


ISE Current Sense Transducers: ISE-XXX-A-800

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

Features

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

Supply Voltage (V_{dd})	5V(+/- 0.5 V)@12mA
Secondary Output Voltage	Ratiometric to Input
Output at + I_p	90% of V_{dd}
Output at - I_p	10% of V_{dd}
Output at 0A	50% of V_{dd}
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

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

Accuracy

Accuracy (I_p)**	$\leq 0.6 \%$
Linearity Error	$\leq 0.1 \%$
DC Offset Accuracy	$\leq 10 \text{ mV}; \leq 0.25 \%$
DC Offset Hysteresis	$\leq 10 \text{ mV}; \leq 0.25 \%$
DC Offset Thermal Drift	$\leq 0.1 \text{ mV}/^\circ\text{C}$

General Data

Ambient Operating Temperature	-40 to +130 $^\circ\text{C}$
Ambient Storage Temperature	-40 to +130 $^\circ\text{C}$
Creepage Distance	1.4mm
Clearance Distance	1.4mm
Safety Standard	EN50178
EMC Standard	EN61000
CTI	600 V
UL File	Pending

Pin Configuration

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

Analog Output Notes

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

Absolute Maximums

Overvoltage V_{DD} Protection.	+10 V
Reverse V_{DD} Protection	-10 V
Output Voltage Max.	+10 V
Output Current Max.	+/- 70 mA
Reverse Output Voltage Max.	- 0.3 V
Reverse Output Current Max.	-50 mA

Notes

- * All specifications at 25°C and assumes 5V_{DD}.
- * Specifications dependent on mechanical attachment.
- * Specifications are % full scale.
- * Output slope is dependent on V_{DD}.

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

