



- Single & Dual Regulated Outputs
- 4:1 Input Range
- SMD Package
- Industry Standard Pinout
- 1500 VDC Isolation
- Short Circuit Protection
- 3 Year Warranty

Specification

Input

Input Voltage Range	<ul style="list-style-type: none"> • 24 V (9-36 VDC) • 48 V (18-72 VDC)
Input Reverse Voltage Protection	<ul style="list-style-type: none"> • None
Input Surge	<ul style="list-style-type: none"> • 24 V: 40 VDC • 48 V: 80 VDC

Output

Output Voltage	<ul style="list-style-type: none"> • See table
Minimum Load	<ul style="list-style-type: none"> • 10%
Line Regulation	<ul style="list-style-type: none"> • $\pm 0.2\%$ typical
Load Regulation	<ul style="list-style-type: none"> • $\pm 0.5\%$ typical
Setpoint Accuracy	<ul style="list-style-type: none"> • $\pm 1\% / \pm 3\%$ typical, positive/negative output
Ripple & Noise	<ul style="list-style-type: none"> • 75 mV pk-pk 20 MHz bandwidth
Temperature Coefficient	<ul style="list-style-type: none"> • $0.03\% / ^\circ C$
Short Circuit Protection	<ul style="list-style-type: none"> • Continuous

General

Efficiency	<ul style="list-style-type: none"> • See table
Isolation Voltage	<ul style="list-style-type: none"> • 1500 VDC
Isolation Resistance	<ul style="list-style-type: none"> • $10^9 \Omega$
Isolation Capacitance	<ul style="list-style-type: none"> • 85 pF typical
Switching Frequency	<ul style="list-style-type: none"> • 300 kHz typical at nominal input, full load
MTBF	<ul style="list-style-type: none"> • >1 MHrs to MIL-HDBK-217F at $25^\circ C$, GB

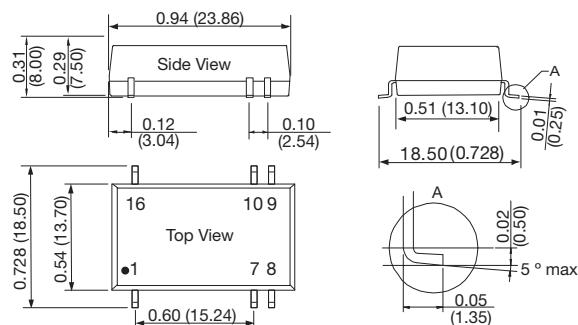
Environmental

Operating Temperature	<ul style="list-style-type: none"> • $-40^\circ C$ to $+85^\circ C$, derate from 100% load at $70^\circ C$ to 50% load at $85^\circ C$
Storage Temperature	<ul style="list-style-type: none"> • $-55^\circ C$ to $+125^\circ C$
Case Temperature	<ul style="list-style-type: none"> • $100^\circ C$ max
Cooling	<ul style="list-style-type: none"> • Convection-cooled
Lead Temperature	<ul style="list-style-type: none"> • $245^\circ C$, 0.06 in (1.5 mm) from case, 10 s

Input Voltage	Output Voltage	Output Current	Efficiency (typ)	Model Number
24 VDC	3.3 V	455 mA	72%	ISL2403A
	5 V	300 mA	76%	ISL2405A
	9 V	167 mA	78%	ISL2409A
	12 V	125 mA	79%	ISL2412A
	15 V	100 mA	80%	ISL2415A
	± 5 V	± 150 mA	74%	ISL2405
	± 12 V	± 63 mA	78%	ISL2412
	± 15 V	± 50 mA	80%	ISL2415
48 VDC	3.3 V	455 mA	72%	ISL4803A
	5 V	300 mA	76%	ISL4805A
	9 V	167 mA	78%	ISL4809A
	12 V	125 mA	79%	ISL4812A
	15 V	100 mA	80%	ISL4815A
	± 5 V	± 150 mA	74%	ISL4805
	± 12 V	± 63 mA	78%	ISL4812
	± 15 V	± 50 mA	80%	ISL4815

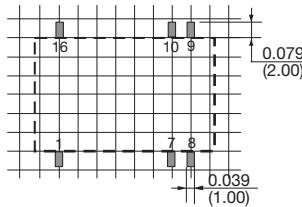
Mechanical Details

Weight: 0.011 lbs (5.2 g)



Recommended footprint

Top view grid: 0.1 x 0.1 in (2.54 x 2.54 mm)



Pin	Single	Dual
1	GND	GND
7	N.C.	N.C.
8	N.C.	0 V
9	+Vo	+Vo
10	0 V	-Vo
16	Vin	Vin

N.C. Not connected

Notes

Dimensions in inches (mm)
Tolerance: ± 0.010 (± 0.25)

Pin tolerance: ± 0.004 (± 0.10 mm)