

PNJ1-5S12 Non-isolated SIP Series

Features

- Point of load(POL) applications
- High efficiency: 90%
- -25 to +55 ambient operating temperature
- Open frame SIP
- Low output ripple and noise
- No minimum load requirement
- Fixed frequency switching(300KHZ)

Environmental

- Operating board temperature range:
-25°C to 100°C
- Storage temperature:
-55°C to 125°C
- Temp.coefficient:
<math><\pm 0.02\%/^{\circ}\text{C}</math>
- MTBF:
>2 million hrs

Electrical Specifications

Input

Input range: 3-5.5Vdc

Output

Voltage setpoint accuracy: $\pm 3.0\%V_o$ max.

Line regulation: $0.5\%V_o$ max.

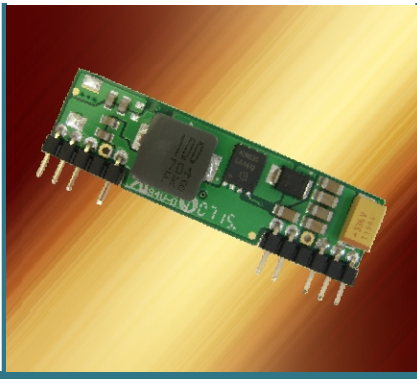
Load regulation: $1.0\%V_o$ max.

Ripple and noise: <math><100\text{mVpp}</math> max.

Transient response: recovery <math><200\mu\text{S}</math> max.
480mV max.

(25% step load change from 50% I_o)
di/dt: 1A/10uS

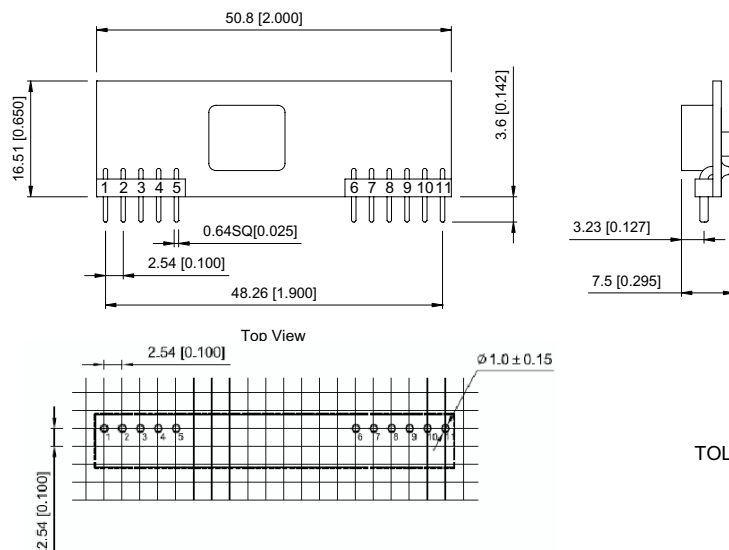
Control



Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
3V to 5.5V	12V	1A	90%	PNJ1-5S12

Dimensions



Pin Assignments

1、 2、 3	Vin
4、 8	NC
5、 6、 7	GND
9、 10、 11	Vo

TOLERANCES: X.Xmm=±/0.5mm
X.XXmm=±/0.25mm

Unit:mm[inch]

Notes: The detail and recommended hole pattern layout is available in the Application Manual.