

PNL18-12SA Non-isolated Series

Features

- Point of load(POL) applications
- High efficiency: 95%, 5V/10A out
- -40 to +85 ambient operating temperature
- Open frame SIP
- 1.2Vdc to 5.5Vdc output for suffix "W" and 0.8Vdc to 1.8Vdc output for suffix "L"
- Output ON/OFF inhibit
- Auto-track sequencing
- Margin up/down controls
- Output voltage sense function
- RoHS compliant

Environmental

- Operating board temperature range:
-40°C to 100°C
- Storage temperature:
-55°C to 125°C
- Temp.coefficient:
$\lt; \pm 0.02\%/^{\circ}\text{C}$
- MTBF:
>2 million hrs

Electrical Specifications

Input

Input range: 10.8-13.2Vdc
Input under-voltage shutdown: 8.9-9.7Vdc

Output

Voltage setpoint accuracy: $\pm 2.0\%V_o$ max.
Voltage adjust: 0.8V to 5.5V
Line regulation: 10mV max.
Load regulation: 25mV max.
Over-current protection: $>160\%I_o$, auto-recovery
Short-circuit protection: continuous, auto-recovery
Ripple and noise: $<45\text{mVpp max. } V_o < 2.5\text{V}</math>
 $<1.5\%V_o \text{ Vpp max. } V_o \geq 2.5\text{V}</math>
Transient response: recovery $<70\mu\text{S max.}</math>
150mV max.
(50% step load change from 50% I_o)
di/dt: 1A/ $\mu\text{S}$$$$

Control

Control voltage:
Positive logic
High =on 10 to 14Vdc
Low=off -0.2 to 0.8Vdc
Control current: 2mA max

