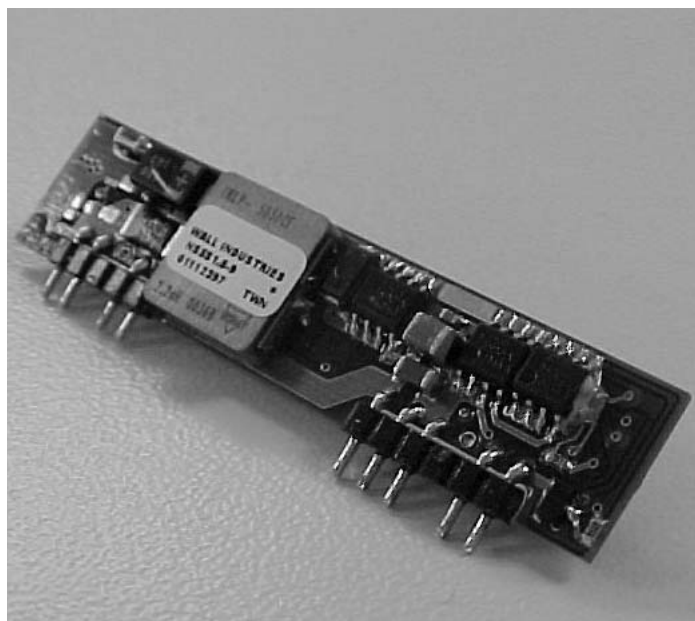


PRODUCT FEATURES

- Compact Single-in-Line Package (SIP)
- Industry Standard Footprint
- High Efficiency
- Output Voltage Trim
- Remote On/Off
- Thermal Shutdown/Auto Recovery

THE NS SERIES FROM WALL INDUSTRIES

The NS Series offers the designer cost effective conversion from 5V or 3.3V input, to as low as 1.5V out, in a convenient footprint. This allows greater flexibility without redesign of existing architecture.



SPECIFICATIONS: NS SERIES

Input Specifications

Input Voltage Range.....	3.0-3.6(see note 7), or 4.5-5.5VDC
Nominal Input.....	3.3 or 5VDC
Input Voltage Lockout.....	Vin<3.5VDC
Input Filter (external).....	100uf, ESR <.045 Ohms
Input Reflected Rippl.....	200 mA Typ.
Remote On/Off.....	Ref. to Ground

Output Specifications

Set Point Accuracy.....	Vin=5.0V; Io=6A; TA=25°C, ±1% of Vout
Voltage Accuracy.....	±2.7%
Output Current.....	See Table
Line Regulation(LL-HL).....	±0.5%
Load Regulation.....	±0.5%
Ripple	100mVp-p, 20mHZ B.W.
Trim.....	±10%
Min. Load	0%
External Load Capacitance.....	10,000uf

General Specifications

Efficiency.....	86% @ 3.3V typical
Isolation Voltage.....	Non Isolated
Isolation Resistance.....	N/A
Switching Frequency.....	500kHz Typical
Minimum Load.....	3.3 No Min. Load
	2.5, 1.5 Consult Factory

Environmental Specifications

Operating Temperature.....	-40° to +85°C
	(with derating)
Storage Temperature.....	-55°C to +105°C
Temperature Coefficient.....	0.02% per °C
Transient Response.....	±2% with 300m sec. Recovery

Physical Specifications

Package size.....	2.50" X 0.55" X 0.24"
Weight.....	0.25 oz.
Case Material.....	Open Frame

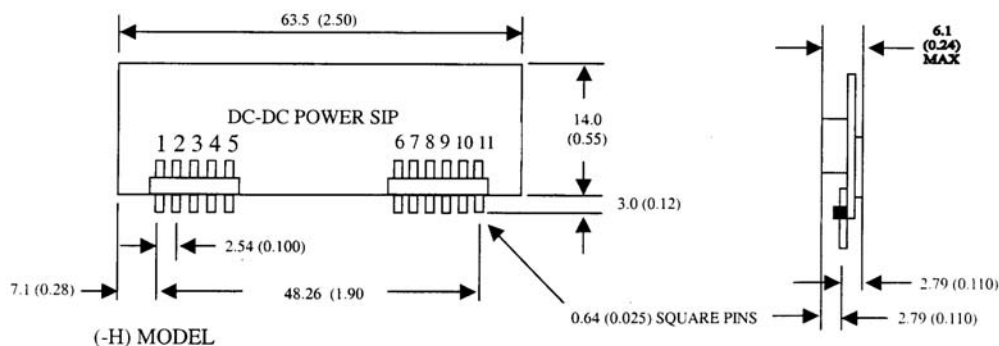
All specifications apply at +25°C ambient unless otherwise noted. Due to advances in technology, specifications subject to change without notice.

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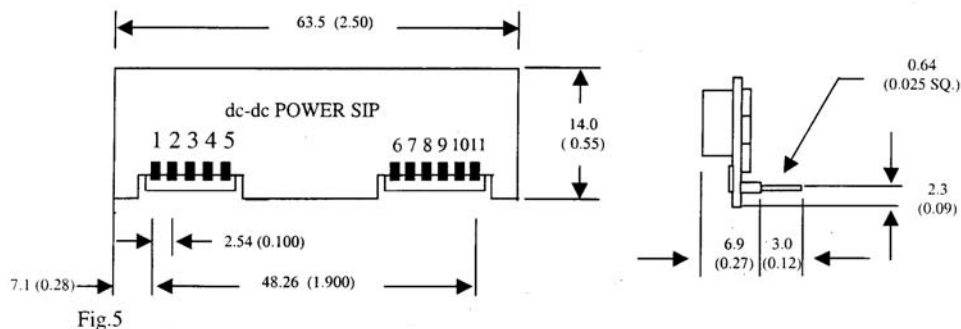
Input Voltage	Output Voltage	Current Amps	Output Current Wattage	Model Number
3.0-3.6	2.5	6	15	NS3.3S2.5-15
	2.1	6	12.6	NS3.3S2.1-12
	1.8	6	10.8	NS3.3S1.8-11
	1.5	6	7.5	NS3.3S1.5-9
4.5-5.5	3.3	6	19.8	NS5S3.3-20
	2.5	6	15	NS5S2.5-15
	2.1	6	12.6	NS5S2.1-12
	1.8	6	10.8	NS5S1.8-11
	1.5	6	7.5	NS5S1.5-9

NOTES: 1) Add suffix "RS" for optional remote sense
 2) Add suffix "H" for horizontal mounting

VERTICAL MOUNT



HORIZONTAL MOUNT



J1 pin connections:

- 1) +Vout
- 2) +Vout
- 3) Opt. Remote sense (+)
- 4) +Vout
- 5) ground

J2 pin connections:

- 6) ground
- 7) +Vin
- 8) +Vin
- 9) no pin
- 10) trim
- 11) remote on/off

Notes:

1. Connect all similar pins together.
2. Auto off power train protection.
3. Measured with a 0.1uf across output.
4. Application notes on Thermal Management and External Trim available, consult factory.
5. All dimensions are for reference only unless otherwise noted.
6. No pin @ pin 3 if no remote sense option.
7. For 3.3Vin models, a capacitor must be added at the input, suggested is Sanyo OS-CON, SA series, 68uF/10V.

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