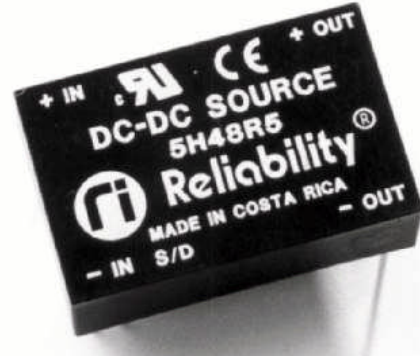


## 5 Watt Regulated DC/DC Converters

### Key Features

- High Density, 12.5 W/cu.in.
- Wide Input Ranges
- Overload/Short Circuit Protection
- SMD Technology
- FCC Section 15 Sub Part J,
- Class A Radiated and Conducted
- CE (LVD)
- L-C Input Filter
- UL, CSA Approved (48Vi only)
- Remote On/Off
- 1500 VDC Isolation



### Applications

- Wireless Communications
- Satellite Guidance Systems
- Cellular Base Stations
- Analog Systems
- Private Branch Exchanges (PBX, PABX)
- Distributed Power Systems
- Industrial Control Systems

### General Electrical Specifications

(Specifications at Nominal Input and 25 C, nominal input voltage and rated output current unless otherwise noted.)

PARAMETER	LIMITS	CONDITIONS
Input Voltage Range	See Selection Guide)	
Input Filter	Common Mode Section	
Input Ripple Current	200 ma (P-P)	Typical
Input/Output Isolation	1500 VDC	
Output Voltage Accuracy	2%	Full Load Nominal Line
Minimum Load	10% of Full Load	
Output Noise	100mV (P-P)	20 MHZ Bandwidth
Line Regulation	0.5%	Full Load
Load Regulation	0.5%	10% to 100% of Full Load
Efficiency	80% Typical	5, 12V Output
	76% Typical	2.5, 3.3V Output
Remote On/Off	Active Low	With respect to Pin 1
Operating Temperature	-40 °C to +85 °C	No Derating
Storage Temperature	-55 °C to +125 °C	
Short Circuit Protection	Continuous	
Oversvoltage Protection	3.3 VDC	2.5 VDC Output
	4.3 VDC	3.3 VDC Output
	6.2 VDC	5.0 VDC Output
	15 VDC	12 VDC Output
	18 VDC	15 VDC Output

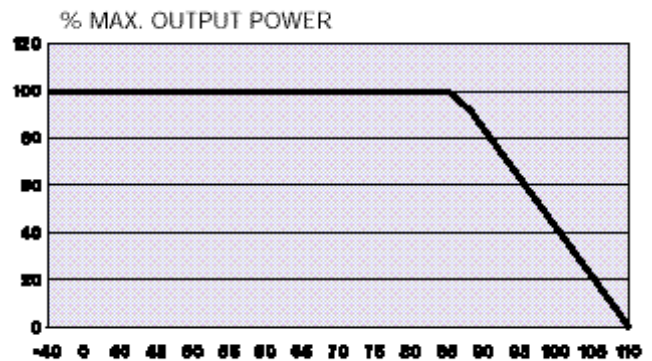
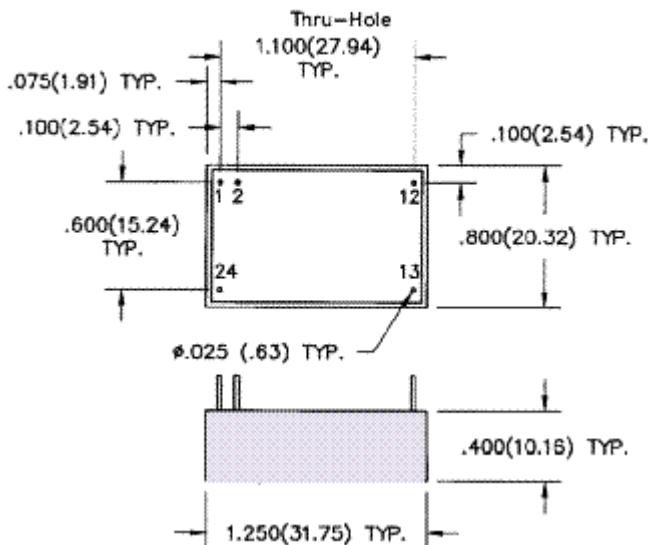
**NOTE:** During testing, the 10% minimum load should be resistive. If an active load is used, it must become active at approximately 80% of the power supply output.

**SELECTION GUIDE**

Device Type	Input Voltage	Input Current A (Max)	Output Voltage	Output Current A (Max)
5H18R5	9-36	0.380	4.90 – 5.10	1.0
5H24R5	12-36	0.270	4.90 – 5.10	1.0
5HI24R5	12-36	0.270	4.90 – 5.10	1.0
5H24R9	12-36	0.265	8.82 – 9.18	0.56
5H24R15	12-36	0.261	14.7 - 15.3	0.33
5H48R2.5	18-75	0.137	2.45 - 2.55	2.0
5H48R3.3	18-75	0.135	3.23 - 3.37	1.5
5H48R5	18-75	0.132	4.90 - 5.10	1.0
5HI48R5	18-75	0.132	4.90 - 5.10	1.0
5HI48R5HV	18-75	0.132	4.90 - 5.10	1.0
5H48R12	18-75	0.132	11.76 - 12.24	0.42

**Pin Connections: “5H” model types “5HI” model types**

Pin #	Function	Function
1	- Input	+ Input
2	Enable	NC
12	- Output	- Output
13	+ Output	+ Output
24	+ Input	- Input

**Mechanical Specification (dimensions in inches)**
**WEIGHT: 15 GRAMS**
**TEMPERATURE DERATING**

**AMBIENT TEMPERATURE: DEG. C**
**NOTES (ALL DEVICES & PACKAGES):**

- All dimensions in parentheses are metric.
- Tolerances unless otherwise specified:  
 .xx ± .03 (.76) .xxx = ± .015 (.38)

Reliability Power Locations	
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