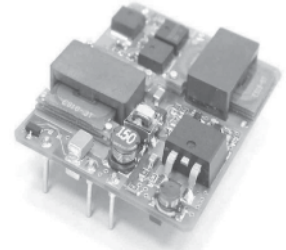


14.5-25 Watt 2x1.6 Inch Package H2 2:1 Input Range



- o Pi Input Filter
- o 2:1 Input Range
- o Efficiency up to 91%
- o Remote On/Off Control
- o Regulated Single Output
- o For Open Frame Version please add Suffix „-PCB“



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
14H2RS24W1.8LC	18-36 VDC	1.8 VDC	8 A	70 mA	723 mA	83
20H2RS24W2.5LC		2.5 VDC	8 A		970 mA	86
20H2RS24W3.3LC		3.3 VDC	6 A		940 mA	88
25H2RS24W5LC		5 VDC	5 A		1170 mA	89
25H2RS24W12LC		12 VDC	2 A	50 mA	1136 mA	88
25H2RS24W15LC		15 VDC	1.6 A		1136 mA	88
14H2RS48W1.8LC	36-75 VDC	1.8 VDC	8 A	50 mA	353 mA	85
20H2RS48W2.5LC		2.5 VDC	8 A		479 mA	87
20H2RS48W3.3LC		3.3 VDC	6 A		465 mA	89
25H2RS48W5LC		5 VDC	5 A		572 mA	91
25H2RS48W12LC		12 VDC	2 A	30 mA	562 mA	89
25H2RS48W15LC		15 VDC	1.6 A		562 mA	89

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range	2:1	
Input Filter	Pi Type	
Undervoltage Lockout	24 Vin Power up	17 V
	24 Vin Power down	16 V
	48 Vin Power up	34 V
	48 Vin Power down	32 V
Positive Logic Remote ON/OFF Control ³⁾	Logic Compatibility Module ON Module OFF	CMOS or Open Collector TTL, ref. to -Vin >3.5 VDC or Open Circuit <1.8 VDC

OUTPUT SPECIFICATIONS

Voltage Accuracy	±1% max.	
Transient Response: 75%-100% Step Load Change		
Error Band	±5% Vout nominal	
Recovery Time	< 300 µsec.	
Voltage Adjustment Range, %Vo	90% - 110%	
Ripple and Noise, 20MHz BW (Measured with 0.1 µF MLCC)	1.8V, 2.5V, 3.3V, 5V	20 mV RMS max.
		75 mV p-p max.
	12V, 15V	20 mV RMS max.
		100 mV p-p max.
Temperature Coefficient	±0.02%/°C	
Short Circuit Protection	Continuous (hiccup mode)	
Line Regulation ¹⁾	±0.5% max.	
Load Regulation ²⁾	±0.5% max.	
Over Voltage Protection (Zener Diode Clamp)	1.8 V & 2.5 V	3.3 V
	3.3 V	3.9 V
	5 V	6.2 V
	12 V	15 V
	15 V	18 V
Current Limit, % nominal Output	110% ~ 150%	

NOTE

1) Line Regulation measured from High Line to Low Line

2) Load Regulation measured from Full Load to 10% Load.

3) Suffix "R" to the Model Number with Negative Logic Remote ON/OFF

Module ON
Module OFF<1.8 VDC
>3.5 VDC or Open Circuit

SPECIFICATIONS

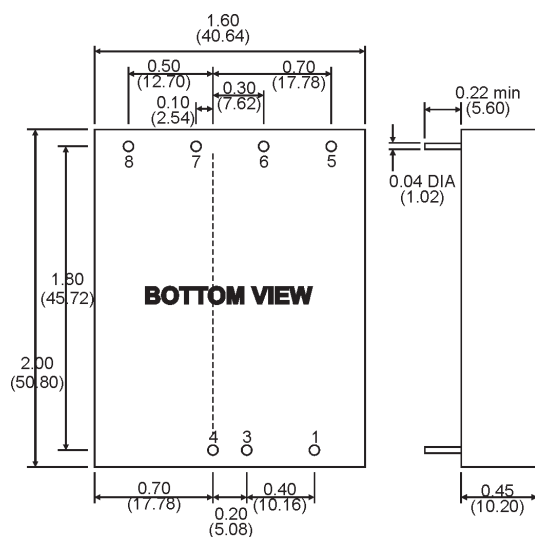
All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

GENERAL SPECIFICATION

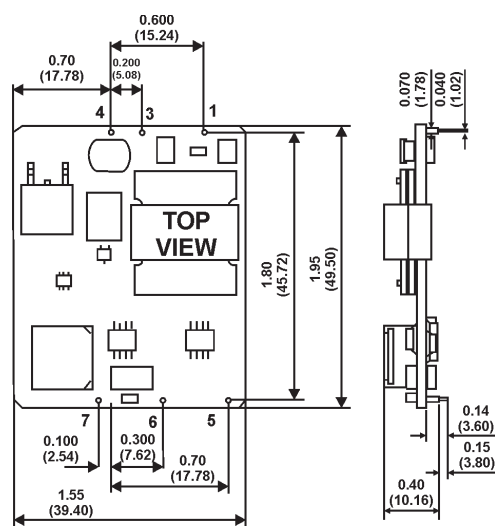
Efficiency	see table	
Isolation Voltage	1500 VDC max.	
Isolation Resistance	100 Mohms min.	
Switching Frequency	300 kHz	
Operating Ambient Temperature Range	-40°C to +85°C	
Case Temperature	+100°C	
Storage Temperature Range	-55°C to + 125°C	
Derating	Metal Case >+71°C Open Frame >+60°C	Linearly to Zero Power at +100°C
Thermal Shutdown Case Temperature	+110°C	
Dimensions	Metal Case Open Frame	2.00 x 1.60 x 0.45 Inches (50.8 x 40.6 x 11.4 mm) 1.95 x 1.55 x 0.4 Inches (49.5 x 39.4 x 10.2 mm)
Metal Case Material	Black Coated Copper with Non-Conductive Base	
Package	Standard Suffix "-PCB"	Metal Case Open Frame Version

MECHANICAL SPECIFICATIONS

Standard Metal Case „H2“



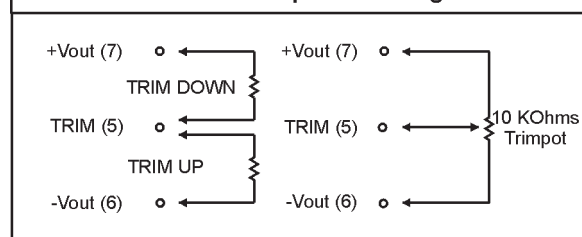
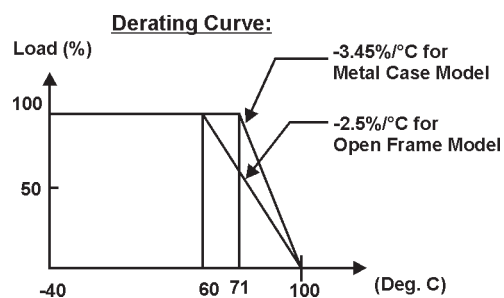
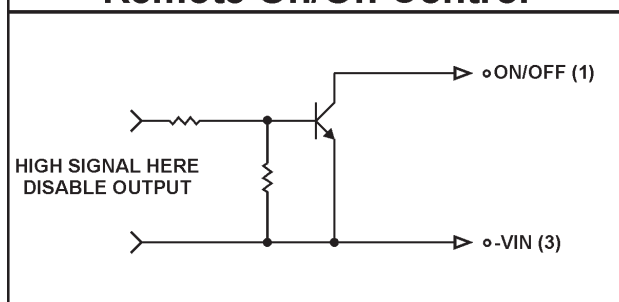
All Dimensions in Inches (mm)
Tolerance: .xx=0.04 .xxx=0.010

Open Frame Package „H2“
Suffix „-PCB“

All Dimensions in Inches (mm)
Tolerance: x.xx = ±0.04 x.xxx = ±0.010

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

APPLICATION NOTES & DIAGRAMS**External Output Trimming****Remote On/Off Control****NOTICE:**

The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies! Specifications can be changed without notice. The latest and most complete information can be found on our website.