

20 Watt 2x1.6 Inch Package H1

4:1 Input Range - Metal Case



- o Single & Dual Output
- o Pi Input Filter
- o Six-Sided Shielded
- o Efficiency up to 84%
- o Remote On/Off Control
- o Conductive EMI Meets EN55022 Class A

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF
				NO LOAD	FULL LOAD	
20H1RS24X3.3LC	9-36 VDC	3.3 VDC	4000 mA	15 mA	705 mA	78
20H1RS24X5LC		5 VDC	4000 mA		1029 mA	81
20H1RS24X12LC		12 VDC	1670 mA		1006 mA	83
20H1RS24X15LC		15 VDC	1330 mA		1004 mA	
20H1RD24X5LC		±5 VDC	±2000 mA	20 mA	1004 mA	83
20H1RD24X12LC		±12 VDC	±833 mA			
20H1RD24X15LC		±15 VDC	±666 mA			
20H1RS48X3.3LC	18-72 VDC	3.3 VDC	4000 mA	10 mA	353 mA	78
20H1RS48X5LC		5 VDC	4000 mA		508 mA	82
20H1RS48X12LC		12 VDC	1670 mA		497 mA	84
20H1RS48X15LC		15 VDC	1330 mA		496 mA	
20H1RD48X5LC		±5 VDC	±2000 mA	15 mA	496 mA	84
20H1RD48X12LC		±12 VDC	±833 mA			
20H1RD48X15LC		±15 VDC	±666 mA			

SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range	4:1
Input Filter	Pi Type
Positive Logic Remote ON/OFF Control	see Application Notes & Diagrams

OUTPUT SPECIFICATIONS

Voltage Accuracy	Single Output	±1% max.
	Dual + Output	±1% max.
	Dual -Output	±2% max.
Voltage Balance, Dual Output at Full Load		±1% max.
Transient Response		<500 µsec.
Single, 25% Step Load Change		
Dual, Full Load to Half Load ±1% Error Band		
External Trim Adj. Range		±10%
Ripple and Noise at 20MHz BW		20 mV RMS max. 75 mV p-p max.
Temperature Coefficient		±0.02%/°C max.
Short Circuit Protection		Continuous
Line Regulation ¹⁾		±0.5% max.
Load Regulation ²⁾		±0.5% max.

NOTE:

1. Line Regulation measured from High Line to Low Line.
2. Load Regulation measured from Full Load to 1/4 Load

GENERAL SPECIFICATION

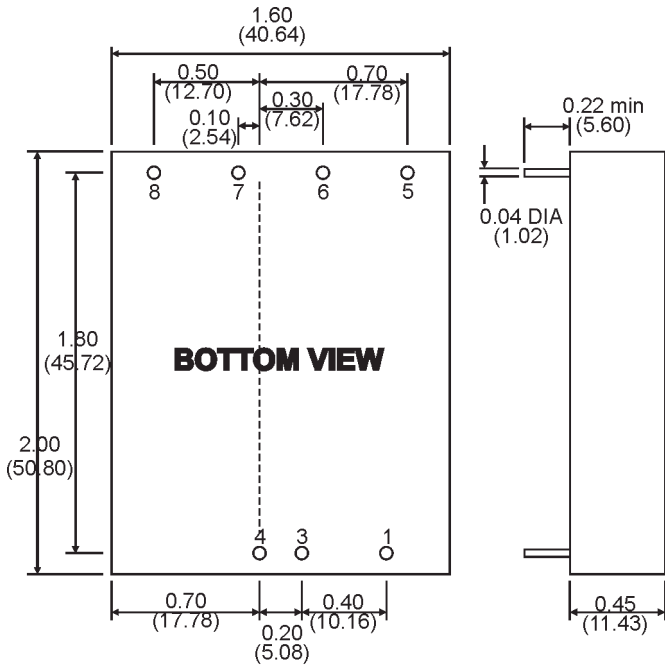
Efficiency	see table
Isolation Voltage	1500 VDC min.
Isolation Resistance	100 Mohms min.
Switching Frequency	300 kHz
Operating Temperature Range	-25°C to +60°C
Derating >+60°C	Linearly to Zero Power at +100°C
Storage Temperature Range	-55°C to +105°C
Case Temperature	+100°C max.
EMI/RFI	Six-Sided Continuous Shield
Case Material	Black Coated Copper with Non-Conductive Base
Case Dimensions	2 x 1.6 x 0.45 Inches (50.8 x 40.64 x 11.43 mm)

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MECHANICAL SPECIFICATIONS

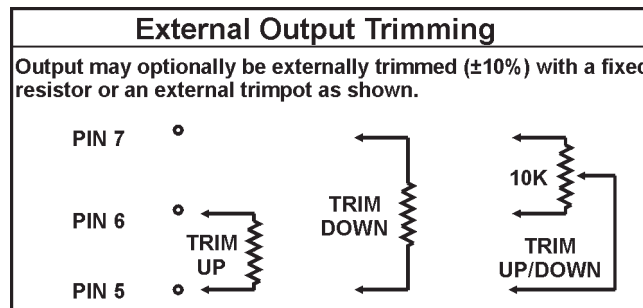
Case „H1“



PIN CONNECTIONS		
PIN	Single	Dual
1	ON/OFF CONTROL	ON/OFF CONTROL
3	-INPUT	-INPUT
4	+INPUT	+INPUT
5	TRIM	TRIM
6	-OUTPUT	OUTPUT
7	+OUTPUT	COMMON
8	NO PIN	+OUTPUT

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

APPLICATION NOTES



REMOTE ON/OFF CONTROL	
Logic Compatibility	CMOS or Open Collector TTL
Ec-ON	>+5.5VDC or Open Circuit
Ec-OFF	<1.8VDC
Shutdown Idle Current	10mA
Control Common	Referenced to Input Minus

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.