

20 Watt

**2x1 Inch Package B1
2:1 Input Range - Metal Case**



- o Pi Input Filter
- o Six-Sided Shielded
- o Efficiency up to 86%
- o Remote On/Off Control
- o Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF
				NO LOAD	FULL LOAD	
20B1RS24W2.5LC	18-36 VDC	2.5 VDC	5000 mA	50 mA	645 mA	81
20B1RS24W3.3LC		3.3 VDC	5000 mA	55 mA	828 mA	83
20B1RS24W5LC		5 VDC	4000 mA		981 mA	85
20B1RS48W2.5LC	36-72 VDC	2.5 VDC	5000 mA	45 mA	318 mA	82
20B1RS48W3.3LC		3.3 VDC	5000 mA		410 mA	84
20B1RS48W5LC		5 VDC	4000 mA		485 mA	86

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

OUTPUT SPECIFICATIONS

Voltage Accuracy	±1.0% max.
Transient Response Single, 25% Step Load Change	<500 µsec.
Minimum Output Current	10% of Full Load
External Trim Adj. Range	±10%
Ripple and Noise, 20MHz BW	75 mV p-p max.
Temperature Coefficient	±0.02%/°C max.
Current Limit Threshold Range, % I _o rated	110%~140%
Remote ON/OFF Control:	see application notes & diagrams
Short Circuit Protection	Continuous
Line Regulation ¹⁾	±0.2% max.
Load Regulation ²⁾	±1.0% max.

1. Line Regulation measured from High Line to Low Line.

2. Load Regulation measured from Full Load to 1/4 Load.

GENERAL SPECIFICATION

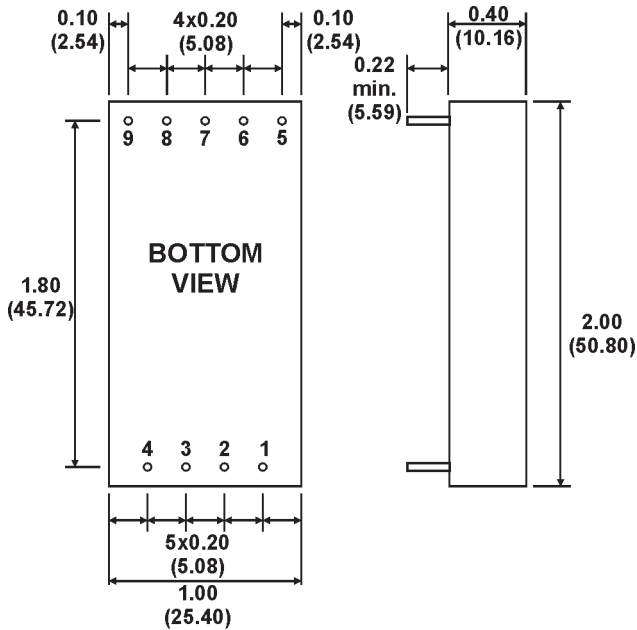
Efficiency	see table
Isolation Voltage	500 VDC min.
Isolation Resistance	100 Mohms min.
Switching Frequency	500 kHz
Operating Temperature Range	-25°C to +71°C
Case Temperature	+100°C max.
Storage Temperature Range	-40°C to +100°C
EM/RFI	Six-Sided Continuous Shield
Case Material	Black Coated Copper with Non-Conductive Base
Case Dimensions	2.0 x 1.0 x 0.4 Inches (50.8 x 25.4 x 10.2 mm)

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MECHANICAL SPECIFICATIONS

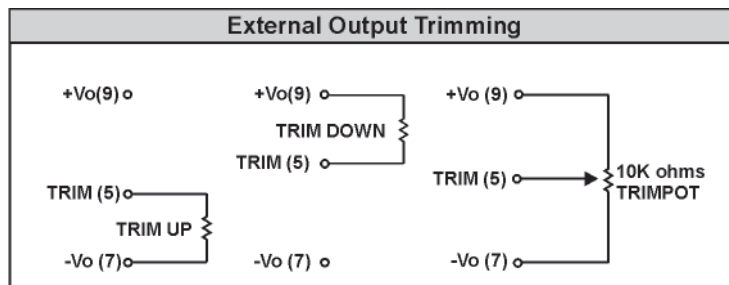
Case "B1"



PIN CONNECTIONS	
PIN	SINGLE
1	REMOTE CTRL.
2	NO PIN
3	-INPUT
4	+INPUT
5	TRIM
6	NO PIN
7	-OUTPUT
8	NO PIN
9	+OUTPUT

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

APPLICATION NOTES & DIAGRAMS



Output may optionally be externally trimmed (±10%) with a fixed resistor or an external trimpot as shown.

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.