

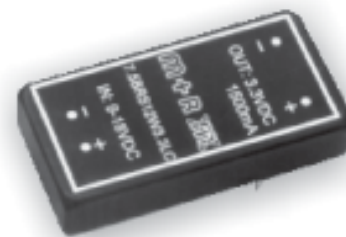
7.5 Watt

2x1 Inch Package B

2:1 Input Range - Metal Case



- o Wide Input Range
- o Pi Input Filter
- o Regulated Outputs
- o Efficiency up to 82%
- o Continuous Short Circuit Protection
- o Option Conductive EMI/RFI Meet EN55022 Class B (Option Remote ON/OFF)



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
7.5BRS12W3.3LC	9-18 VDC	3.3 VDC	1500 mA	7.5 mA	557 mA	74
7.5BRS12W5LC		5 VDC	1500 mA		820 mA	76
7.5BRS12W12LC		12 VDC	625 mA		780 mA	80
7.5BRS12W15LC		15 VDC	500 mA		820 mA	76
7.5BRD12W5LC		±5 VDC	±750 mA	12 mA	775 mA	80
7.5BRD12W12LC		±12 VDC	±310 mA		780 mA	
7.5BRD12W15LC		±15 VDC	±250 mA			
7.5BRS24W3.3LC	18-36 VDC	3.3 VDC	1500 mA	5 mA	271 mA	76
7.5BRS24W5LC		5 VDC	1500 mA		400 mA	78
7.5BRS24W12LC		12 VDC	625 mA		380 mA	82
7.5BRS24W15LC		15 VDC	500 mA	7.5 mA	400 mA	78
7.5BRD24W5LC		±5 VDC	±750 mA		385 mA	81
7.5BRD24W12LC		±12 VDC	±310 mA			
7.5BRD24W15LC		±15 VDC	±250 mA			
7.5BRS48W3.3LC	36-72 VDC	3.3 VDC	1500 mA	3 mA	136 mA	76
7.5BRS48W5LC		5 VDC	1500 mA	2 mA	200 mA	78
7.5BRS48W12LC		12 VDC	625 mA		192 mA	81
7.5BRS48W15LC		15 VDC	500 mA			
7.5BRD48W5LC		±5 VDC	±750 mA	3 mA	200 mA	78
7.5BRD48W12LC		±12 VDC	±310 mA		192 mA	81
7.5BRD48W15LC		±15 VDC	±250 mA			

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 Network

OUTPUT SPECIFICATIONS

Voltage Accuracy		±2% max.
Voltage Balance (Dual)		±1% max.
Temperature Coefficient		±0.05%/°C
Ripple and Noise, 20MHz BW	3.3V, 5V	100 mV p-p max.
	12, 15V	1% p-p max.
Short Circuit Protection		Continuous
Line Regulation ¹		±0.5%
Load Regulation	Single Output ²	±0.5%
	Dual Output ³	±1.0%

NOTE:

1. Measured from High Line to Low Line.
2. Measured from Full Load to 10% Load.
3. Measured from Full Load to 1/4 Load.

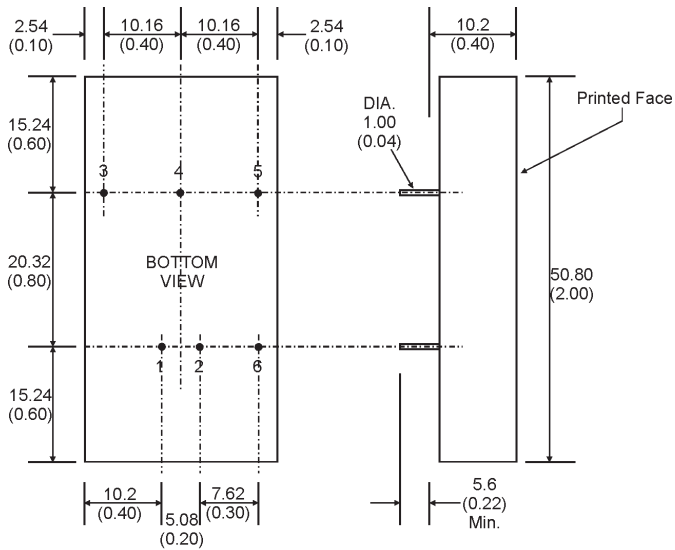
GENERAL SPECIFICATION

Efficiency	see table
Isolation Voltage	1500 VDC min.
Suffix "B"	Option EMI/RFI EN55022 Class B
Suffix "BR"	EN55022 Class B + Remote Control
Isolation Resistance	1000 Mohms
Switching Frequency	100 kHz min.
Operating Temperature Range	-25°C to +71°C
Case Temperature	+100°C max.
Storage Temperature Range	-40°C to +100°C
Cooling	Free-Air Convection
Derating >+71°C	Linearly to Zero power at +100°C
Recommended Reflow Soldering Pb-free*	see diagram
Case Material	Black Coated Copper with Non-Conductive Base
Dimensions	2 x 1 x 0.4 Inches (50.8 x 25.4 x 10.2 mm)
Weight	35 g
MTBF (MIL-HDBK-217F)	min. 1.148.000 hrs

*) We do not recommend vapor phase soldering!

SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS**CASE "B"**

All Dimensions in mm (Inches)
 Tolerances: Inches x.xx=±0.04, x.xxx=±0.010
 Millimeters x.x=±1.00, x.xx=±0.25

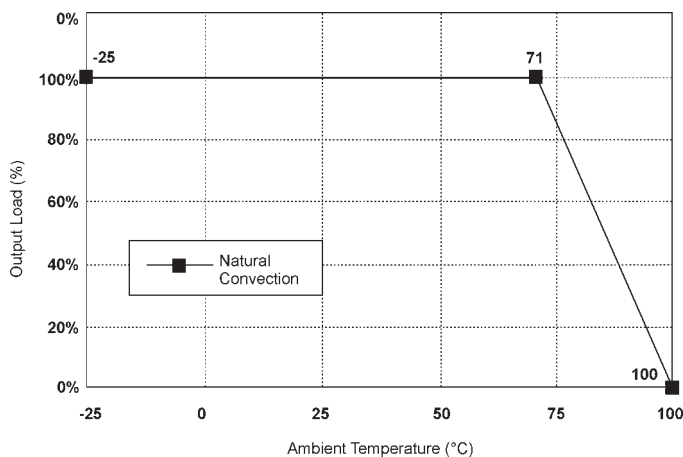
PIN CONNECTIONS

PIN	SINGLE	DUAL
1	+INPUT	+INPUT
2	-INPUT	-INPUT
3	+OUTPUT	+OUTPUT
4	NO PIN	COMMON
5	-OUTPUT	-OUTPUT

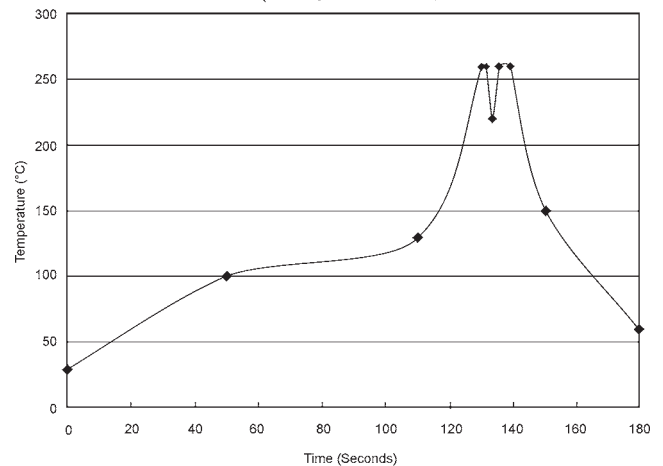
* Pin 6 (s. Fig.) = Option Remote Control

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

DIAGRAMS**Derating Curve****Lead Free Wave Soldering Profile**

(Soldering Material: Sn/Cu/Ni)



1. Ramp up rate during preheat: 1.5°C/Sec (From 50°C to 100°C)
2. Soaking temperature: 0.5°C/Sec (From 100°C to 130°C), 60±20 seconds
3. Peak temperature: 260°C, above 250°C 3-6 Seconds
4. Ramp up rate during cooling: -10.0°C/Sec (From 260°C to 150°C)

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.