

10 Watt**2x1 Inch Package B**
2:1 Input Range - Metal Case

- o Wide Input Range
- o Pi Input Filter
- o Regulated Output
- o Efficiency up to 82%
- o Continuous Short Circuit Protection
- o Conductive EMI/RFI Meets EN55022 Class A



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		%EFF
			MIN.	MAX.	NO LOAD	FULL LOAD	
10BRS5W5LC	4.7-9 VDC	5 VDC	0 mA	1600 mA	15 mA	2130 mA	75
10BRS5W12LC		12 VDC		666 mA		2100 mA	76
10BRS5W15LC		15 VDC		533 mA			
10BRD5W5LC		±5 VDC		±800 mA			
10BRD5W12LC		±12 VDC		±333 mA			
10BRD5W15LC		±15 VDC		±266 mA			
10BRS12W5LC	9-18 VDC	5 VDC	100 mA	2000 mA	30 mA	1100 mA	76
10BRS12W12LC		12 VDC	45 mA	830 mA		1065 mA	78
10BRS12W15LC		15 VDC	35 mA	666 mA			
10BRD12W5LC		±5 VDC	±50 mA	±1000 mA	40 mA		
10BRD12W12LC		±12 VDC	±25 mA	±415 mA			
10BRD12W15LC		±15 VDC	±20 mA	±333 mA			
10BRS24W5LC	18-36 VDC	5 VDC	100 mA	2000 mA	20 mA	535 mA	78
10BRS24W12LC		12 VDC	45 mA	830 mA		520 mA	80
10BRS24W15LC		15 VDC	35 mA	666 mA			
10BRD24W5LC		±5 VDC	±50 mA	±1000 mA			
10BRD24W12LC		±12 VDC	±25 mA	±415 mA			
10BRS24W15LC		±15 VDC	±20 mA	±333 mA			
10BRS48W5LC	36-72 VDC	5 VDC	100 mA	2000 mA	10 mA	260 mA	80
10BRS48W12LC		12 VDC	45 mA	830 mA		254 mA	82
10BRS48W15LC		15 VDC	35 mA	666 mA			
10BRD48W5LC		±5 VDC	±50 mA	±1000 mA			
10BRD48W12LC		±12 VDC	±25 mA	±415 mA			
10BRD48W15LC		±15 VDC	±20 mA	±333 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 Type

OUTPUT SPECIFICATIONS

Voltage Accuracy	±1% max.
Voltage Balance Dual Output at Full Load	±1% max.
Transient Response Single: 25% Step Load Change Dual: Full Load to 1/2 Load ±1% Error Band	<500µ sec
Temperature Coefficient	±0.02%/°C max.
Ripple and Noise, 20MHz BW	100 mV p-p max.
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.

3) A minimum Load on the Output is necessary to maintain Regulation.

GENERAL SPECIFICATION

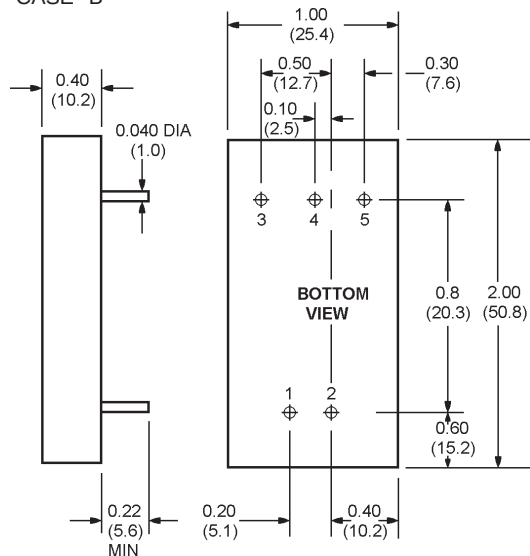
Efficiency	see table
Isolation Voltage	500 VDC min.
Isolation Resistance	1000 Mohms
Switching Frequency	200 kHz min.
Operating Temperature Range	-25°C to +71°C
Case Temperature	+100°C max.
Storage Temperature Range	-40°C to +100°C
Cooling	Free-Air Convection
Derating >+71°C	-3.5%/°C
EMI/RFI	EN55022 Class A Six-Sided Continuous Shield
Dimensions	2.0 x 1.0 x 0.4 Inches (50.8 x 25.4 x 10.2 mm)
Case Material	Black Coated Copper with Non-Conductive Base
MTBF (MIL-HDBK-217F)	min. 962.000 hrs

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MECHANICAL SPECIFICATIONS

CASE "B"



All Dimensions in Inches (mm)

Tolerance .xx = ± 0.04 , .xxx = ± 0.010 Inches**PIN CONNECTIONS**

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

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.