

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

- o Wide Input Range
- o Pi Input Filter
- o Regulated Output
- o Efficiency up to 87%
- o Continuous Short Circuit Protection
- o Without Tantalum Capacitors Inside
- o Conductive EMI Meets EN55022 Class A
- o CE Mark Meets 2004/108/EC
- o Safety Meets UL60950-1, EN60950-1 and IEC60950-1

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT MAX.	INPUT CURRENT		%EFF	CAPACITOR LOAD MAX.
				NO LOAD	FULL LOAD		
10BURS5W3.3LC	4.7-9 VDC	3.3 VDC	2500 mA	120 mA	1987 mA	87	2470 µF
10BURS5W5LC		5 VDC	2000 mA		2299 mA		2000 µF
10BURS5W12LC		12 VDC	833 mA	50 mA	2298 mA		940 µF
10BURS5W15LC		15 VDC	666 mA		2297 mA	690 µF	
10BURD5W5LC		±5 VDC	±1000 mA		2353 mA	85	1000 µF
10BURD5W12LC		±12 VDC	±416 mA		2295 mA	87	440 µF
10BURD5W15LC		±15 VDC	±333 mA	2297 mA	87	330 µF	
10BURS12W3.3LC	9-18 VDC	3.3 VDC	2500 mA	30 mA	838 mA	82	2470 µF
10BURS12W5LC		5 VDC	2000 mA		980 mA		85
10BURS12W12LC		12 VDC	833 mA	35 mA	957 mA	87	940 µF
10BURS12W15LC		15 VDC	666 mA		956 mA		690 µF
10BURD12W5LC		±5 VDC	±1000 mA		45 mA	980 mA	85
10BURD12W12LC		±12 VDC	±416 mA	957 mA		87	440 µF
10BURD12W15LC		±15 VDC	±333 mA	957 mA		87	330 µF
10BURS24W3.3LC	18-36 VDC	3.3 VDC	2500 mA	25 mA		419 mA	82
10BURS24W5LC		5 VDC	2000 mA		490 mA	85	
10BURS24W12LC		12 VDC	833 mA		478 mA	87	940 µF
10BURS24W15LC		15 VDC	666 mA				690 µF
10BURD24W5LC		±5 VDC	±1000 mA			490 mA	85
10BURD24W12LC		±12 VDC	±416 mA		478 mA	87	440 µF
10BURD24W15LC		±15 VDC	±333 mA				330 µF

**SPECIFICATIONS**

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

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT MAX.	INPUT CURRENT		%EFF	CAPACITOR LOAD MAX.
				NO LOAD	FULL LOAD		
10BURS48W3.3LC	36-75 VDC	3.3 VDC	2500 mA	20 mA	212 mA	81	2470 $\mu$ F
10BURS48W5LC		5 VDC	2000 mA		245 mA	85	2000 $\mu$ F
10BURS48W12LC		12 VDC	833 mA		239 mA	87	940 $\mu$ F
10BURS48W15LC		15 VDC	666 mA				690 $\mu$ F
10BURD48W5LC		$\pm$ 5 VDC	$\pm$ 1000 mA		245 mA	85	1000 $\mu$ F
10BURD48W12LC		$\pm$ 12 VDC	$\pm$ 416 mA		239 mA	87	440 $\mu$ F
10BURD48W15LC		$\pm$ 15 VDC	$\pm$ 333 mA				330 $\mu$ F

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<b>INPUT SPECIFICATIONS</b>			
Input Voltage Range			2:1
Undervoltage Lockout	5 V Models	power up 4.4	power down 4.2 VDC
	12 V Models	power up 8.4	power down 8.0 VDC
	24 V Models	power up 17	power down 16 VDC
	48 V Models	power up 34	power down 32 VDC
Input Surge Voltage (100 ms max.)	5 Vin		12 VDC max.
	12 Vin		25 VDC max.
	24 Vin		50 VDC max.
	48 Vin		100 VDC max.
Input Filter			Pi Type

<b>OUTPUT SPECIFICATIONS</b>			
Voltage Accuracy			±1.5% max.
Voltage Balance (Dual)			±2.0% max.
Transient Response: 25% Step Load Change			<500 µs
Ripple and Noise at 20 MHz BW (Measured with 0.1 µF MLCC)			100 mV p-p max.
Temperature Coefficient			±0.03%/°C max.
Short Circuit Protection			Continuous
Line Regulation <sup>1)</sup>	Single		±0.2% max.
	Dual		±0.5% max.
Load Regulation <sup>2)</sup>	Single		±0.2% max.
	Dual		±1.0% max.
Cross Regulation (Dual Output) Load cross variation 10%/100%			±5% max.
Over Voltage Protection			Zener or TVS Clamp
Current Limit			110%-140% Nominal Output
Start up Time			20 ms max.
Remote Positive ON/OFF Control add Suffix "R"	Logic Compatibility	CMOS or Open Collector TTL, Referenced to -Vin	
	Module ON	>5.5 VDC to 75 VDC or Open Circuit	
	Module OFF	<1.2 VDC	
Output Voltage Adjustable External Trim Adj. Range add Suffix "T"			>±10% (Single Output Models only)

**NOTE:**

1. Measured from High Line to Low Line.
2. Measured from Full Load to min. Load.

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<b>GENERAL SPECIFICATION</b>	
Efficiency	see table
Isolation Voltage	1500 VDC min.
Isolation Resistance	1000 MOhms min.
Isolation Capacitance	1000 pF
Switching Frequency	350 kHz
EMI/RFI	Conductive EMI Meets EN55022 Class A
Operating Ambient Temperature Range	-40°C to +85°C
Derating, above +85°C	Linearly to Zero Power at +105°C
Case Temperature <sup>1)</sup>	+105°C max.
Storage Temperature Range	-55°C to +125°C
Cooling	Natural Convection
Humidity	95% RH max. Non Condensing
MTBF (MIL-STD-217F, GB, 25°C, Full Load)	1200 khrs
Case Grounding	Connect Case to -Vin with Decoupling Y Cap
Dimensions	2.00 x 1.00 x 0.40 Inches (50.8 x 25.4 x 10.16 mm)
Case Material	Black Coated Copper with Non-Conductive Base
Weight	35.0 g

## NOTE:

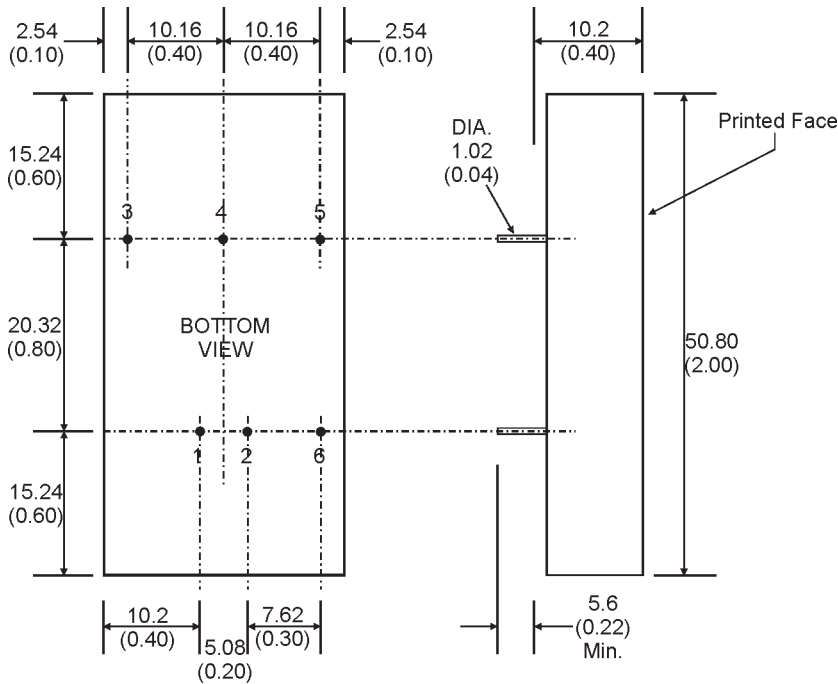
1. Maximum case temperature under any operating condition should not be exceeded +105°C.

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**MECHANICAL SPECIFICATIONS**

CASE "BU"



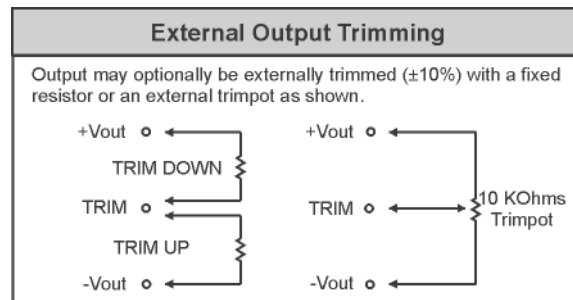
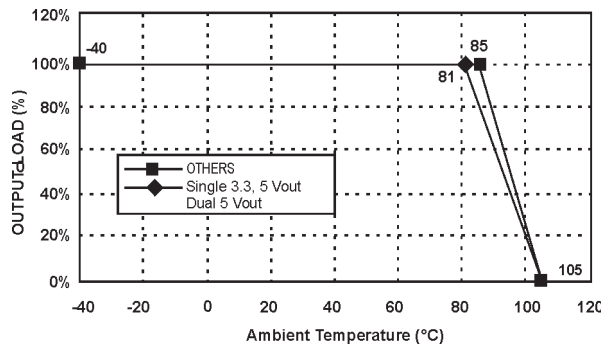
PIN CONNECTIONS	
1	+INPUT
2	-INPUT
3	+OUTPUT
4	COMMON/NP/TRIM* (OPTION)
5	-OUTPUT
6	NP/REMOTE CONTROL (OPTION)

\*NP-NO PIN on Single Output

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

**DIAGRAMS**

**Derating Curve**



**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.