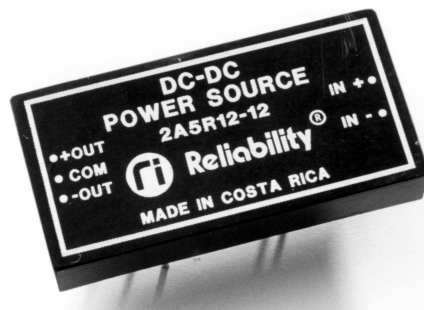


2 Watt Regulated DC/DC Converter

Key Features

- Designed for analog requirements
- Input/Output isolation
- Dual regulated outputs
- Continuous self-recovering short circuit protection
- Thermal overload protection
- 0.5 line and load regulation
- No derating to 71° C
- Meets FCC Section 15, Sub Part J, A & B



These 2 Watt regulated DC/DC converters operate from an input of 5 volts and make available at board level dual outputs of ± 12 or ± 15 VDC. They operate without derating or heatsinking over the full temperature range. Solid tantalum capacitors are used for enhanced reliability. The units are designed for analog applications such as Op Amps, A/D, D/A and F/V converters. They can also be used for negative voltage bias applications.

General Electrical Specifications

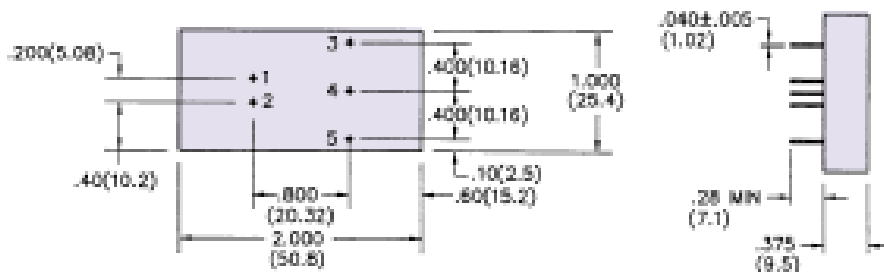
(Specifications at Nominal Input and 25 C, nominal input voltage and rated output current unless otherwise noted.)

Parameter	Limits	Conditions
Input Voltage Range 2A5R12-12 & 2A5R15-15	4.5 - 5.5 VDC	
Reflected Input Ripple	Common Mode Input Inductor 80 ma P-P (Max)	
Input/Output Isolation Voltage Resistance	500 VDC (Min) 10^3 megohms (Min)	All Device Types
Output Accuracy	$\pm 5\%$	Nom. Line at Full Load
Load Regulation	0.5%	No Load to Full Load
Line Regulation	0.5%	Low Line to High Line
Output Voltage Temperature Coefficient	$\pm .015\%$ per °C	Typical
Output Noise/Ripple 2A5R12-12 & 2A5R15-15	50mV P-P (Max)	20Hz-20MHz Bandwidth
Short Circuit Protection 2A5R12-12 & 2A5R15-15 Duration	Constant Current Continuous	
Switching Frequency 2A5R12-12 & 2A5R15-15	40KHz Typical	
Operating Temperature	-25°C to +71°C	
Derating	None	To 71°C
Storage Temperature	-55°C to +125°C	

Selection Guide

Device Type	Input Voltage Range VDC	Typical Input Current (A) @ Max Load	Output Voltage VDC	Max Output Current (mA)	Package/ Pinout
2A5R12-12	4.50 - 5.50	.660	± 12	± 75	2A
2A5R15-15	4.50 - 5.50	.660	± 15	± 60	2A

Mechanical Specification (dimensions in inches)

2A


PIN	PIN CONNECTIONS
1	+INPUT
2	-INPUT
3	+OUTPUT
4	COMMON
5	-OUTPUT

NOTES (ALL DEVICES & PACKAGES):

- All dimensions in parentheses are metric.
- Tolerances unless otherwise specified:
 $.xx = .03 (.76)$ $.xxx = .015 (.38)$

Reliability Power Locations	
HEADQUARTERS & CUSTOMER SERVICE	SALES
Reliability Power, Incorporated 33 Musick Irvine, CA 92618 USA Tel: (949) 305-6700 Fax: (949) 305-6701 www.reliabilitypower.com	Reliability Power, Incorporated Attention: SALES Tel: (805) 449-1667 Fax: (805) 557-4530 sales@reliabilitypower.com