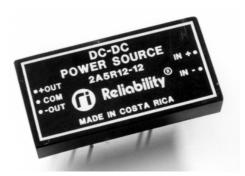


Key Features

- 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

2 Watt Regulated DC/DC Converter



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	4.5 - 5.5 VDC	
2A5R12-12 & 2A5R15-15	Common Mode	
2A5R12-12 & 2A5R15-15	Input Inductor	
Reflected Input Ripple	80 ma P-P (Max)	
Input/Output Isolation		
Voltage	500 VDC (Min)	All Device Types
Resistance	10 ³ megohms (Min)	
Output Accuracy	± 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	± .015% per ℃	Typical
Output Noise/Ripple	50mV P-P (Max)	20Hz-20MHz Bandwidth
2A5R12-12 & 2A5R15-15		
Short Circuit Protection		
2A5R12-12 & 2A5R15-15	Constant Current	
Duration	Continuous	
Switching Frequency		
2A5R12-12 & 2A5R15-15	40KHz Typical	
Operating Temperature	-25 ℃ to +71 ℃	
Derating	None	To 71 ℃
Storage Temperature	-55 °C to +125 °C	

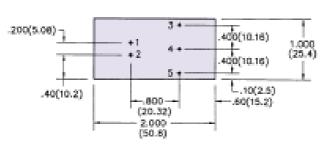


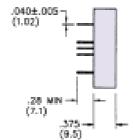
Selection Guide

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	<u>.</u> 660	± 15	± 60	2A

Mechanical Specification (dimensions in inches)







PIN	PIN CONNECTIONS
1	+INPUT
2	-INPUT
-3	+CUTPUT
4	COMM ON
5	-CUTPUT

NOTES (ALL DEVICES & PACKAGES):

- 1. All dimensions in parentheses are metric.
- Tolerances unless otherwise specified: .nr = .03 (.76) .oxe = = .015 (.38)

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