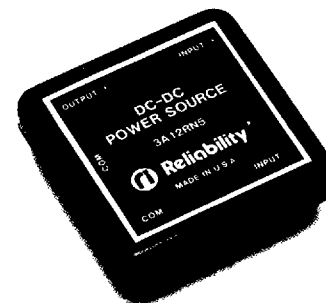


3 & 5 WATT REGULATED DC/DC CONVERTERS

KEY FEATURES

- Recommended For Highspeed Analog Applications
- Input/Output Isolated
- PC Mountable
- Continuous Short Circuit Protection, Self Recovering
- Line Regulation: 0.02%
- Load Regulation: 0.02%
- Single & Dual Outputs
- Pi Input Filter
- No Derating To 71°C
- Wide Input Range
- High Power Density
- Designed To Meet FCC SEC 15, Sub-part J, A and B
- 100% Burned-In
- 3 Year Warranty



DESCRIPTION

The A and D Series of DC/DC converters provide tight regulation and accuracy in a compact, cost effective package. The series operates from nominal inputs of 5, 12 or 24VDC with single and dual output voltages. Outputs feature extremely low noise. The series provides 3 to 6 watts of output with high efficiency. Designed for board level applications such as A/D and D/A converters, operational and instrument amplifiers, and portable data acquisition equipment.

SELECTION GUIDE Standard Products

DEVICE TYPE	INPUT VOLTAGE RANGE VDC	NL CURRENT A (MAX)	FL INPUT CURRENT A (MAX)	OUTPUT VOLTAGE VDC	OUTPUT CURRENT ma (MAX)	PACKAGE/ PINOUT
3A5RN5	4.5 - 5.5	.300	1.20	+or-5	600	A
3D5RN5	4.5 - 5.5	.300	1.20	+or-5	600	D
3A5RN12-12	4.5 - 5.5	.200	1.60	±12	±150	A
3D5RN12-12	4.5 - 5.5	.200	1.60	±12	±150	D
3A5RN15-15	4.5 - 5.5	.200	1.90	±15	±150	A
3D5RN15-15	4.5 - 5.5	.200	1.90	±15	±150	D
5D5RN5	4.5 - 5.5	.300	1.82	+or-5	1000	D
5A5RN12-12	4.5 - 5.5	.300	2.40	±12	±250	A
5D5RN12-12	4.5 - 5.5	.300	2.40	±12	±250	D
5A5RN15-15	4.5 - 5.5	.300	2.40	±15	±200	A
5D5RN15-15	4.5 - 5.5	.300	2.40	±15	±200	D
5A12RN5	10.8 - 13.2	.050	.72	+or-5	1000	A
5A12RN12-12	10.8 - 13.2	.100	.85	±12	±250	A
5A12RN15-15	10.8 - 13.2	.100	.85	±15	±250	A
5A24RN5	21.6 - 26.4	.050	.35	+or-5	1000	A
5D24RN5	21.6 - 26.4	.050	.35	+or-5	1000	D
5A24RN12-12	21.6 - 26.4	.050	.45	±12	±250	A
5A24RN15-15	21.6 - 26.4	.050	.45	±15	±200	A



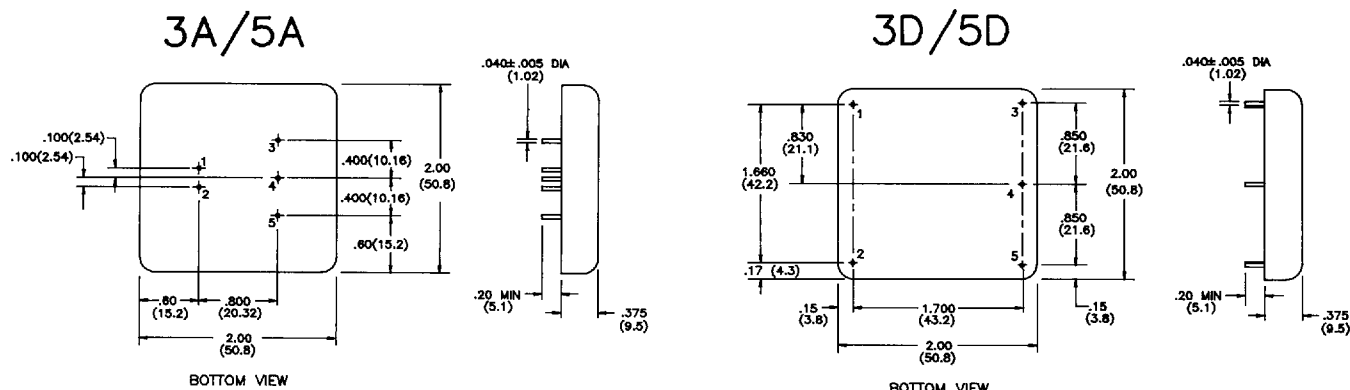
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GENERAL ELECTRICAL SPECIFICATIONS

(Specifications at Nominal Input and 25°C)

PARAMETER	LIMIT	CONDITIONS
Input Filter	Pi Filter	All Device Types
Input/Output Isolation		
Voltage	500 VDC (Min.)	All Units
Resistance	10 ³ megohms (Min)	
Output Voltage Accuracy	± 1%	Factory Set
Load Regulation	0.02% (Max.)	NL to FL ±12V and ±15V
		Output Models
Line Regulation	0.1% (Max.)	5V Output Models
	0.02% (Max.)	Low Line to High Line
		at Full Load
Output Voltage Stability	0.02%/°C	Typical
Output Noise/Ripple	40mV P-P (Max.)	20Hz - 20MHz Bandwidth
Short Circuit Protection	Current Limited	All Units
Duration	Continuous	
Thermal Overload	Dual Output Units	
Protection		
Foldback Current Limiting	Single Output Units	
Switching Frequency	25 KHz	
Operating Temperature	-25°C to +71°C	
Derating	None	To 71°C
Storage Temperature	-35°C to +125°C	

MECHANICAL SPECIFICATIONS



PIN	SINGLE OUTPUT	DUAL OUTPUT
1	+INPUT	+INPUT
2	-INPUT	-INPUT
3	+OUTPUT	+OUTPUT
4	COMMON	COMMON
5	COMMON	-OUTPUT

NOTES:

1. ALL DIMENSIONS IN PARENTHESES ARE METRIC.
2. TOLERANCES UNLESS OTHERWISE SPECIFIED: .XX = ±.03 (.76)
.XXX = ±.015 (.38)

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12-64-12M-694

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