

DC/DC CONVERTERS

TRIPLE-OUTPUT

FEATURES

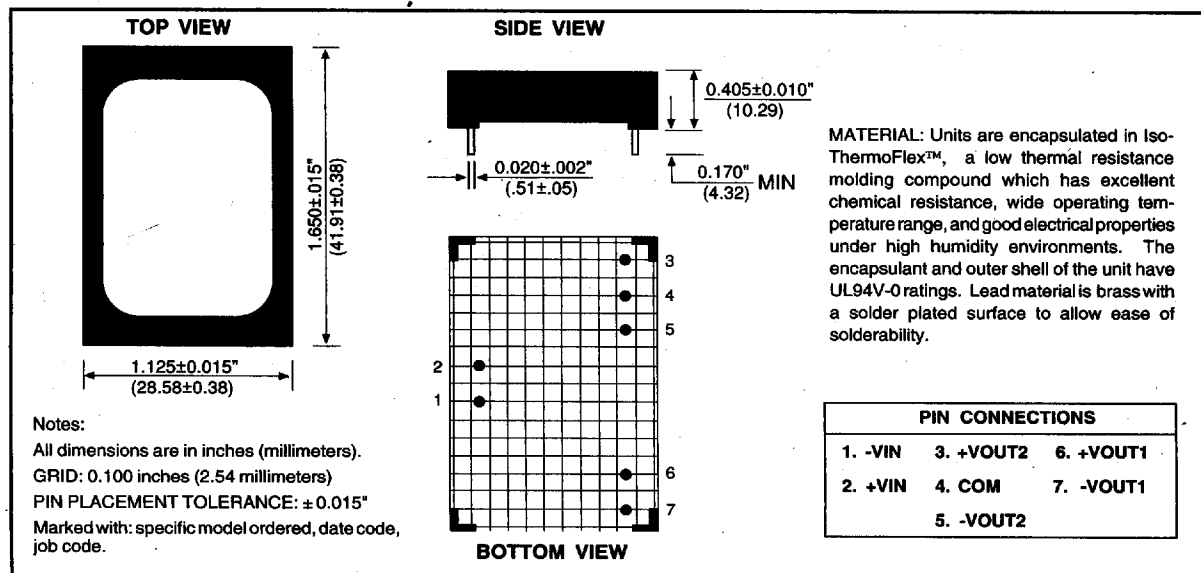
- ISOLATION VOLTAGE TEST METHODS PER UL544, VDE750, AND CSA C22.2 DIELECTRIC WITHSTAND REQUIREMENT
- BARRIER LEAKAGE CURRENT 100% TESTED AT 240VAC
- 5V SINGLE AND ±12V OR ±15V DUAL OUTPUTS
- WIDE OPERATING TEMPERATURE RANGE: -40°C TO +100°C
- INPUT AND OUTPUT FILTERING
- SIX-SIDED SHIELDING

DESCRIPTION

The PWR8XX Series offers a large selection of unregulated 5W DC/DC converters for use in such diverse applications as process control, telecommunications, portable equipment, medical systems, airborne and shipboard electronic circuits, and automatic test equipment. Twelve models allow the user to select input voltages of 5VDC to 48 VDC and output voltages of 5 and ±12VDC, or ±15VDC.

Surface-mounted devices and manufacturing processes are used in the PWR8XX Series to give the user a device that is more environmentally rugged than most DC/DC converters. The PWR8XX Series provides superior isolation voltage, and each PWR8XX Series unit is tested with the dielectric withstand methods of UL544, VDC750, and CSA C22.2.

MECHANICAL



ELECTRICAL SPECIFICATIONS

MODEL	NOMINAL INPUT VOLTAGE (VDC)	CHANNEL 1 RATED OUTPUT		CHANNEL 2 RATED OUTPUT		MAXIMUM INPUT CURRENT (MA)
		VOLTAGE (VDC)	CURRENT (MA)	VOLTAGE (MA)	CURRENT (MA)	
PWR800	5	5	250	±12	±156	1665
PWR801	5	5	250	±15	±125	1665
PWR802	12	5	250	±12	±156	695
PWR803	12	5	250	±15	±125	695
PWR804	15	5	250	±12	±156	555
PWR805	15	5	250	±15	±125	555
PWR806	24	5	250	±12	±156	345
PWR807	24	5	250	±15	±125	345
PWR808	28	5	250	±12	±156	295
PWR809	28	5	250	±15	±125	295
PWR810	48	5	250	±12	±156	170
PWR811	48	5	250	±15	±125	170

Note: Other input to output voltages may be available. Please consult factory.

COMMON SPECIFICATIONS

Specifications typical at $T_A = +25^\circ\text{C}$, nominal input voltage, rated output current unless otherwise noted.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT Voltage Range Input Ripple Current	$I_{LOAD} = \text{Rated Load}$	50		±20%	mA, p-p
ISOLATION Rated Voltage Test Voltage Resistance Capacitance Leakage Current	60Hz, 60 seconds $V_{ISO} = 240\text{VAC}$	1000 3000	10 80	15	VDC V _{PK} GΩ pF μA
OUTPUT Voltage Setpoint Accuracy Voltage Ripple Voltage Line Regulation	Rated Load, Nominal V_{IN} No Load, $V_{OUT} = 5\text{V Models}$ No Load, $V_{OUT} = 12\text{V Models}$ No Load, $V_{OUT} = 15\text{V Models}$ Rated Load, Nominal V_{IN}		100 1	±5 7 15 18	% VDC VDC VDC mV, p-p %%
GENERAL Package Weight Switching Frequency			20 50		g kHz
TEMPERATURE Specification Operation Storage		-25 -40 -55	+25	+85 +100 +125	°C °C °C

ABSOLUTE MAXIMUM RATINGS

Internal Power Dissipation.....	4W
Short Circuit Protection.....	<1 Second
Lead Temperature (soldering, 10 seconds max).....	+300°C

ORDERING INFORMATION

Device Family	PWR 8XX /H
PWR Indicates DC/DC Converter	
Model Number	Selected from Table of Electrical Characteristics
Screening Option	