

DC/DC CONVERTERS

TRIPLE-OUTPUT

FEATURES

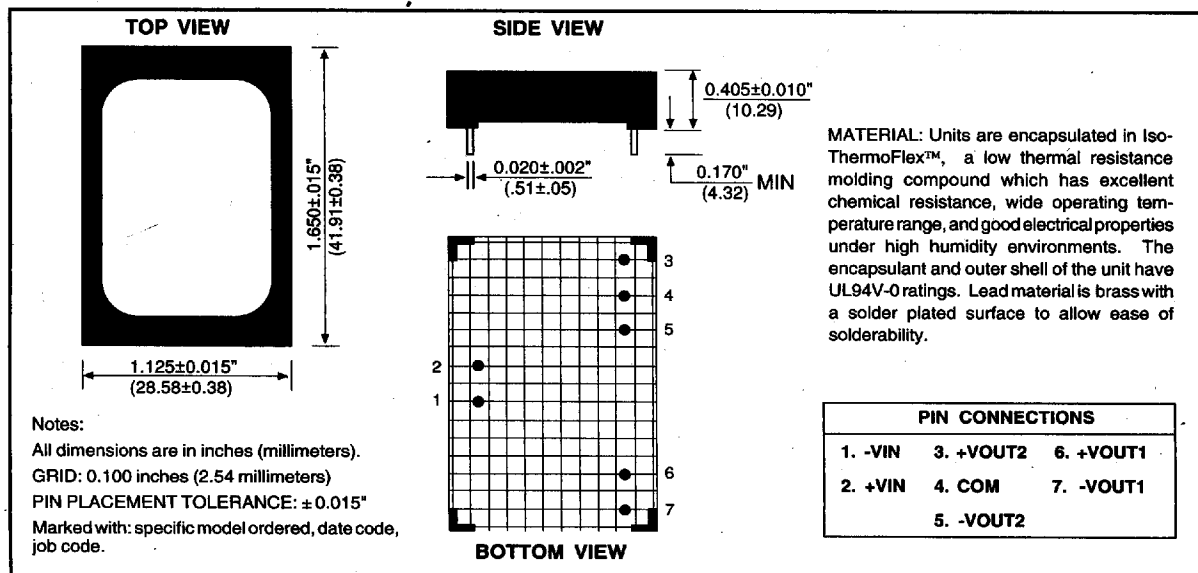
- ISOLATION VOLTAGE TEST METHODS PER UL544, VDE750, AND CSA C22.2 DIELECTRIC WITHSTAND REQUIREMENT
- BARRIER LEAKAGE CURRENT 100% TESTED AT 240VAC
- 5V SINGLE AND $\pm 12V$ OR $\pm 15V$ DUAL OUTPUTS
- WIDE OPERATING TEMPERATURE RANGE: $-40^{\circ}C$ TO $+100^{\circ}C$
- INPUT AND OUTPUT FILTERING
- SIX-SIDED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

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 PWR801	5 5	5 5	250 250	±12 ±15	±156 ±125	1665 1665
PWR802 PWR803	12 12	5 5	250 250	±12 ±15	±156 ±125	695 695
PWR804 PWR805	15 15	5 5	250 250	±12 ±15	±156 ±125	555 555
PWR806 PWR807	24 24	5 5	250 250	±12 ±15	±156 ±125	345 345
PWR808 PWR809	28 28	5 5	250 250	±12 ±15	±156 ±125	295 295
PWR810 PWR811	48 48	5 5	250 250	±12 ±15	±156 ±125	170 170

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	$I_{\text{LOAD}} = \text{Rated Load}$	50		±20%	mA, p-p
ISOLATION Rated Voltage Test Voltage Resistance Capacitance Leakage Current	60Hz, 60 seconds $V_{\text{ISO}} = 240\text{VAC}$	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, $V_{\text{OUT}} = 5\text{V Models}$ No Load, $V_{\text{OUT}} = 12\text{V Models}$ No Load, $V_{\text{OUT}} = 15\text{V Models}$ 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			