

9 WATTS REGULATED DC/DC CONVERTERS

PWR51XX



DESCRIPTION

The PWR5104 and PWR5105 offer respectively $\pm 12\text{VDC}$ and $\pm 15\text{VDC}$ outputs of regulated 9W power driven from your +5V system bus. These units are designed for use in such diverse applications as process control, telecommunications, portable equipment, medical systems, airborne and shipboard electronic circuits, and automatic test equipment.

The PWR5104 and PWR5105 offer a low-cost alternative to other models currently on the market. In addition, these models utilize high frequency switching in order to maintain a low EMI and RFI environment. Both models incorporate input and output filtering along with six-sided shielding to keep unwanted noise from your circuit.

Surface-mounted devices and manufacturing processes are used in the PWR5104 and PWR5105 to give you a device that is environmentally rugged. These manufacturing and design technologies also give superior isolation voltage.

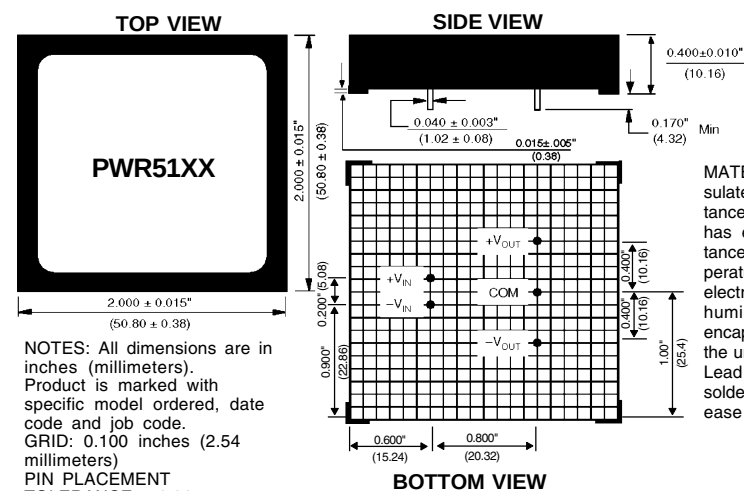
FEATURES

- LOW COST
- LOW NOISE
- LINEAR OUTPUT REGULATION
- WIDE OPERATING TEMPERATURE RANGE: -40°C TO $+100^{\circ}\text{C}$
- $\pm 12\text{VDC}$ AND $\pm 15\text{VDC}$ OUTPUTS
- INPUT AND OUTPUT FILTERING
- SIX-SIDED SHIELDING
- BARRIER LEAKAGE CURRENT 100% TESTED AT 240VAC

APPLICATIONS

- PROCESS CONTROL
- TELECOMMUNICATIONS
- PORTABLE EQUIPMENT
- MEDICAL SYSTEMS
- AIRBORNE AND SHIPBOARD ELECTRONIC CIRCUITS
- AUTOMATIC TEST EQUIPMENT

MECHANICAL



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ELECTRICAL SPECIFICATIONS

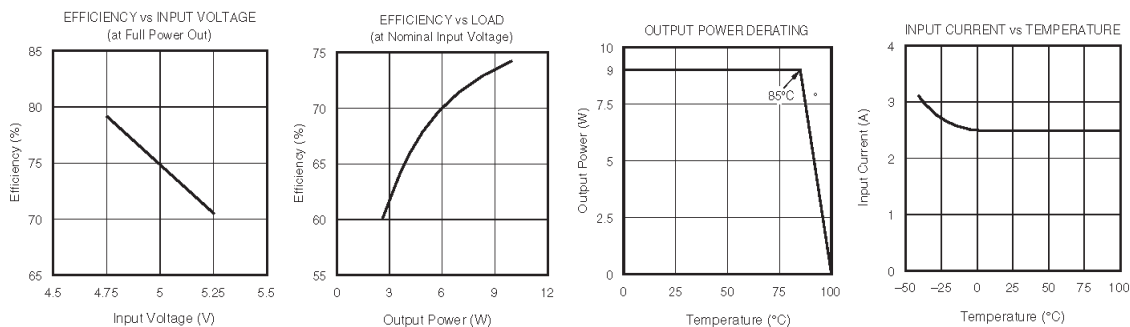
Specifications typical at $T_A = +25^{\circ}\text{C}$, nominal input voltage, rated output current unless otherwise noted.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT					
Nominal Voltage	No Load Rated Load Rated Load	4.75	5	5.25	V _{DC}
Voltage Range					V _{DC}
Input Current			60		mA
Ripple Current			2400		mA
			5		mAp-p
OUTPUT					
PWR5104 Rated Voltage	Rated Load, Nominal V _{IN} -25°C to +85°C BW = DC to 10MHz	70	±12	±375	V _{DC}
Rated Current					mA
PWR5105 Rated Voltage			±15		V _{DC}
Rated Current					mA
Setpoint Accuracy			±0.5	±1.0%	%
Voltage Balance			±0.3		%
Temperature Coefficient			±0.01		%/°C
Ripple and Noise			6	35	mVp-p
Line Regulation			0.02		%
Load Regulation			0.04		%
Efficiency		75			%
ISOLATION					
Rated Voltage	60 Hz, 10 Seconds	750	10	15	V _{DC}
Test Voltage		750			mVp-p
Resistance					Ω
Capacitance		50			pF
Leakage Current	240Vrms, 60Hz				μArms
GENERAL					
Switching Frequency			50		kHz
Package Weight			50		g
TEMPERATURE					
Specification		-25	+25	+85	°C
Operation		-40		+100	°C
Storage		-55		+125	°C

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

TYPICAL PERFORMANCE CURVES

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



ABSOLUTE MAXIMUM RATINGS

Input Voltage	5.5V _{DC}
Output Short Circuit Duration	15 seconds
Internal Power Dissipation	4W
Lead Temperature (soldering, 10 seconds max)	+300°C

ORDERING INFORMATION

Device Family	PWR	51XX	/H
PWR indicates DC/DC converter			
Model Number			
Selected From Table of Electrical Specifications			
Screening Option			

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