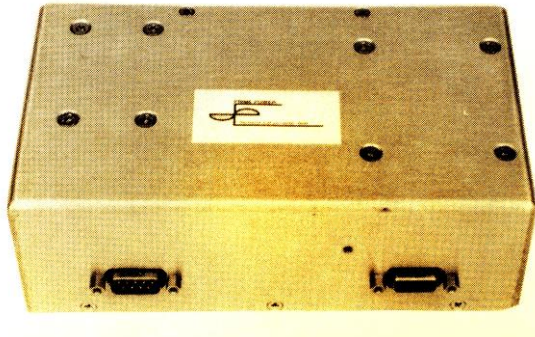




XP2105

DUAL OUTPUT DC/DC CONVERTER



- Multiple Output Supply in a High Density Package
- Meets MIL-STD-1275 Requirements
- Meets MIL-STD-704A Requirements
- Rugged Design Meets MIL-STD-810 Vibration and Shock Requirements
- Six Sided Continuous EMI Shielding
- Designed For Ground or Airborne Applications
- Output Protection Overvoltage and Current

DESCRIPTION:

The XP2105 was designed for ground mobile (MIL-STD-1275) or airborne (MIL-STD-704A) applications but it can be used in other rugged military applications. The dual output power supply is very versatile and can be easily modified to other output voltages depending on customers' requirements. The power supply meets the environmental requirements of MIL-STD-810.

GENERAL SPECIFICATIONS		
INPUT VOLTAGE	16-36VDC	
FREQUENCY RANGE	N/A	
OUTPUT VOLTAGE	+24VDC	+5VDC
OUTPUT CURRENT	7 AMPS	2.1 AMPS
PHYSICAL SIZE	6.7" X 3.75" X 2.25"	
WEIGHT	<3LBS	
MTBF	> 250,000 HRS	

PHYSICAL CHARACTERISTICS	
MAXIMUM CASE SIZE	6.7" X 3.75" X 2.25"
COOLING METHOD	CONDUCTION
ENCAPSULATION	N/A
ENCLOSURE FINISH	YELLOW CHROMATE
BASEPLATE FINISH	YELLOW CHROMATE
INPUT/OUTPUT TERMINATION	D-SUB CONNECTORS
MOUNTING HOLES	THREADED BASEPLATE
WEIGHT	<3LBS



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<u>ELECTRICAL SPECIFICATIONS</u>		
OUTPUT VOLTAGE:	+24VDC	+5VDC
LINE REGULATION (LO LINE TO HI LINE)	.5%	.5%
LOAD REGULATION (1/2-FL W/SENSE)	1%	1%
PARA (RIPPLE NOISE) DC-20MHZ	150MVP-P	50MVP-P
OVERCURRENT SETPOINT	130% OF TOTAL OUTPUT CURRENT	130% OF TOTAL OUTPUT CURRENT
OVERVOLTAGE SET	135% LATCH TYPE	135% LATCH TYPE
TURN-ON OVERSHOOT	1% TYP.	1% TYP.
EFFICIENCY (MIN)	72%	
ISOLATION	100VDC I/D	
EMI FILTERING	MIL-STD-461	
OUTPUT POWER	200WATTS	

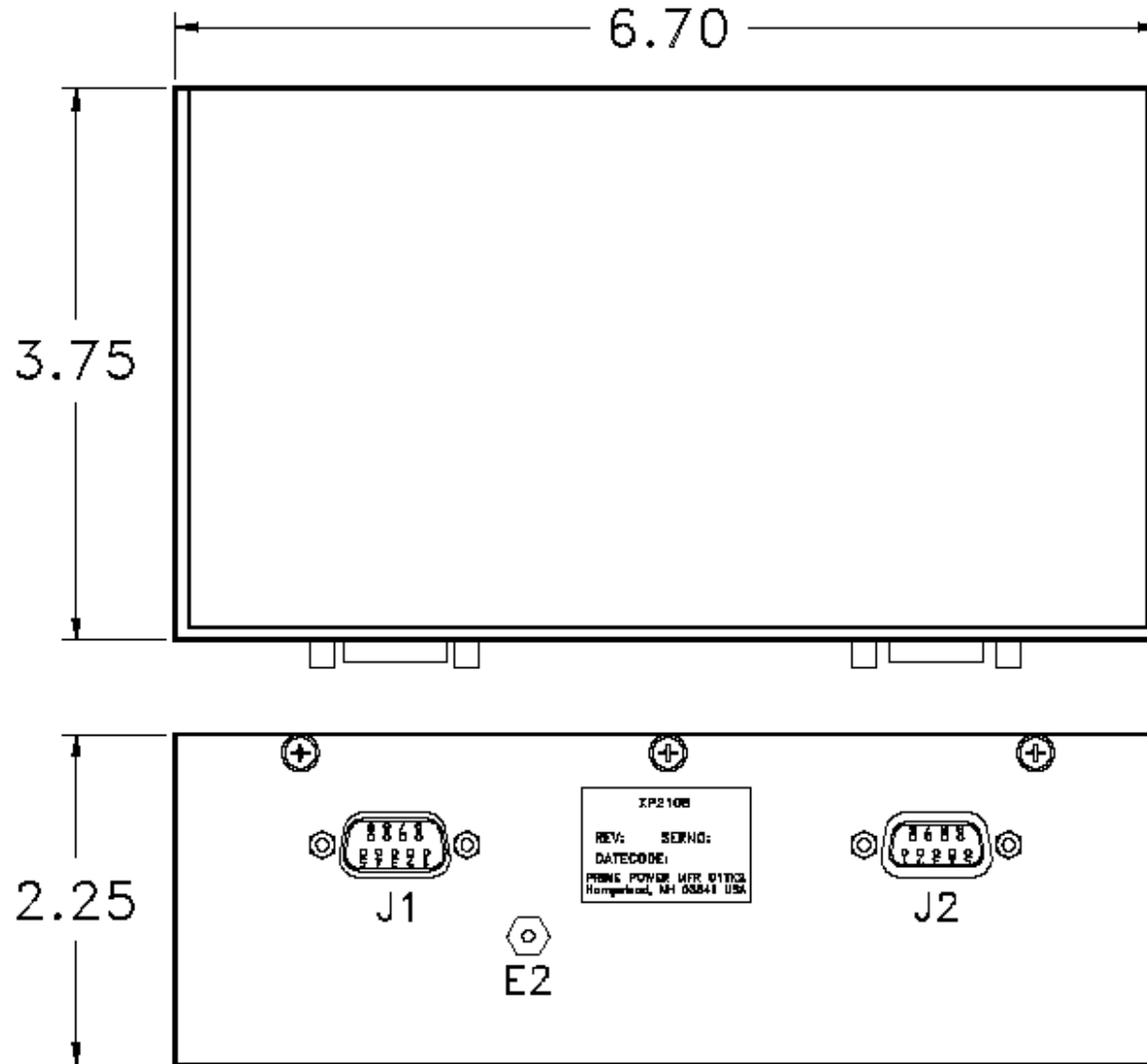
<u>ENVIRONMENTAL SPECIFICATIONS</u>		
PRESSURE-ALTITUDE	MIL-STD-810F	METHOD 501.1 PROCEDURE 1
HIGH TEMPERATURE	MIL-STD-810F	METHOD 501.4 PROCEDURE 1 & 2
LOW TEMPERATURE	MIL-STD-810F	METHOD 502.4 PROCEDURE 1 & 2
HUMIDITY	MIL-STD-202G	METHOD 103B
FUNGUS	MIL-STD-810F	METHOD 508, CONDITION A
SALT FOG	MIL-STD-202G	METHOD 101 E, TEST CONDITION A
SAND AND DUST	MIL-STD-810F	METHOD 501.4, PROCEDURE 1 & 2
EXPLOSIVE ATMOSPHERE	MIL-STD-810F	METHOD 511, CONDITION A
ACCELERATION	MIL-STD-810F	METHOD 513.5, PROCEDURE 1 & 2
VIBRATION	MIL-STD-810F	METHOD 514.2
SHOCK	MIL-STD-883	METHOD 2002.4

<u>TEMPERATURE SPECIFICATIONS</u>	
OPERATING BASEPLATE TEMPERATURE	-46°C TO 95°C
STORAGE TEMPERATURE	-55°C TO 125°C
TEMPERATURE COEFFICIENT	0.02%/°C



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