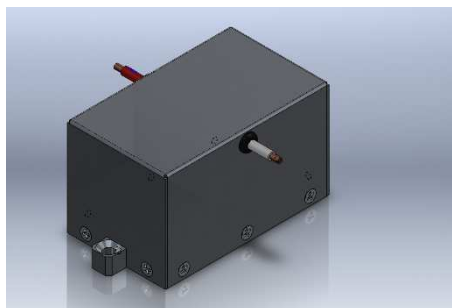




MP2168

60KW VOLTAGE TRANSIENT SUPPRESSOR MODULE FOR MIL-STD-1275



- 60KW Peak Pulse Power Dissipation
- Very Fast Response
- Bi-Polar Protection
- Rugged Aluminum Construction
- Clamps the Voltage Transients of MIL-STD-1275
- 18-36VDC Input

DESCRIPTION:

Prime Power's MP2168 Voltage Transient Suppressor Module is capable of protecting sensitive electrical systems from high-energy transients, and over voltage power surges in either direction. This module is designed for direct connection to 28VDC vehicular systems and meets the requirements of MIL-STD-1275 for; 100V surge (.5 ohm source impedance), capable of handling 100A peak current (single 130mS sq. wave pulse), 100% tested for 5 pulses of 100A 50mS sq. current pulses (1S delay between pulses tested at 50°C baseplate temp.), with clamping below 55VDC for both 100V and 250V pulses.

GENERAL SPECIFICATIONS	
INPUT VOLTAGE (L-N)	18VDC – 36VDC
FREQUENCY RANGE	N/A
PHYSICAL SIZE	3.08"L X 1.5"W X 1.5"H
WEIGHT	CONTACT: SALES@PRIME-POWER.COM
MTBF	CONTACT: SALES@PRIME-POWER.COM

PHYSICAL CHARACTERISTICS	
MAXIMUM CASE SIZE	3.08"L X 1.5"W X 1.5"H
COOLING METHOD	BASEPLATE
ENCAPSULATION	SILICONE POTTING
ENCLOSURE FINISH	YELLOW CHROMATE
BASEPLATE FINISH	YELLOW CHROMATE
INPUT/OUTPUT TERMINATION	FLYING LEADS
MOUNTING	(2X) #6 THROUGH

WWW.PRIME-POWER.COM

SALES@PRIME-POWER.COM

PRIME POWER INC: (603) 329-4675.
1 OWENS CT.
HAMPSTEAD NH, 03841.



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ELECTRICAL SPECIFICATIONS					
RATING	CONDITION	SYMBOL	MIN	MAX	UNITS
PEAK PULSE POWER DISSIPATION	@25°C, 1mS	P_{pk}	-	60	KW
STEADY STATE POWER DISSIPATION	@25°C	P	-	40	W
REVERSE STAND-OFF VOLTAGE		I_D	-	33	V
REVERSE LEAKAGE	@ V _{WM}	V_{WM}	-	25	uA
BREAKDOWN VOLTAGE	@ 10mA	V_(BR)		-	V
CLAMPING VOLTAGE	@ I _{pp}	V_C	-	49	V
PEAK PULSE CURRENT	-	I_{pp}		100	A
TIME CLAMPING	0 VOLTS TO V _(BR)		-	< 1X 10 ⁻⁸	SEC.

ENVIRONMENTAL SPECIFICATIONS		
PRESSURE-ALTITUDE		
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-810F	HIGH IMPACT SHOCK

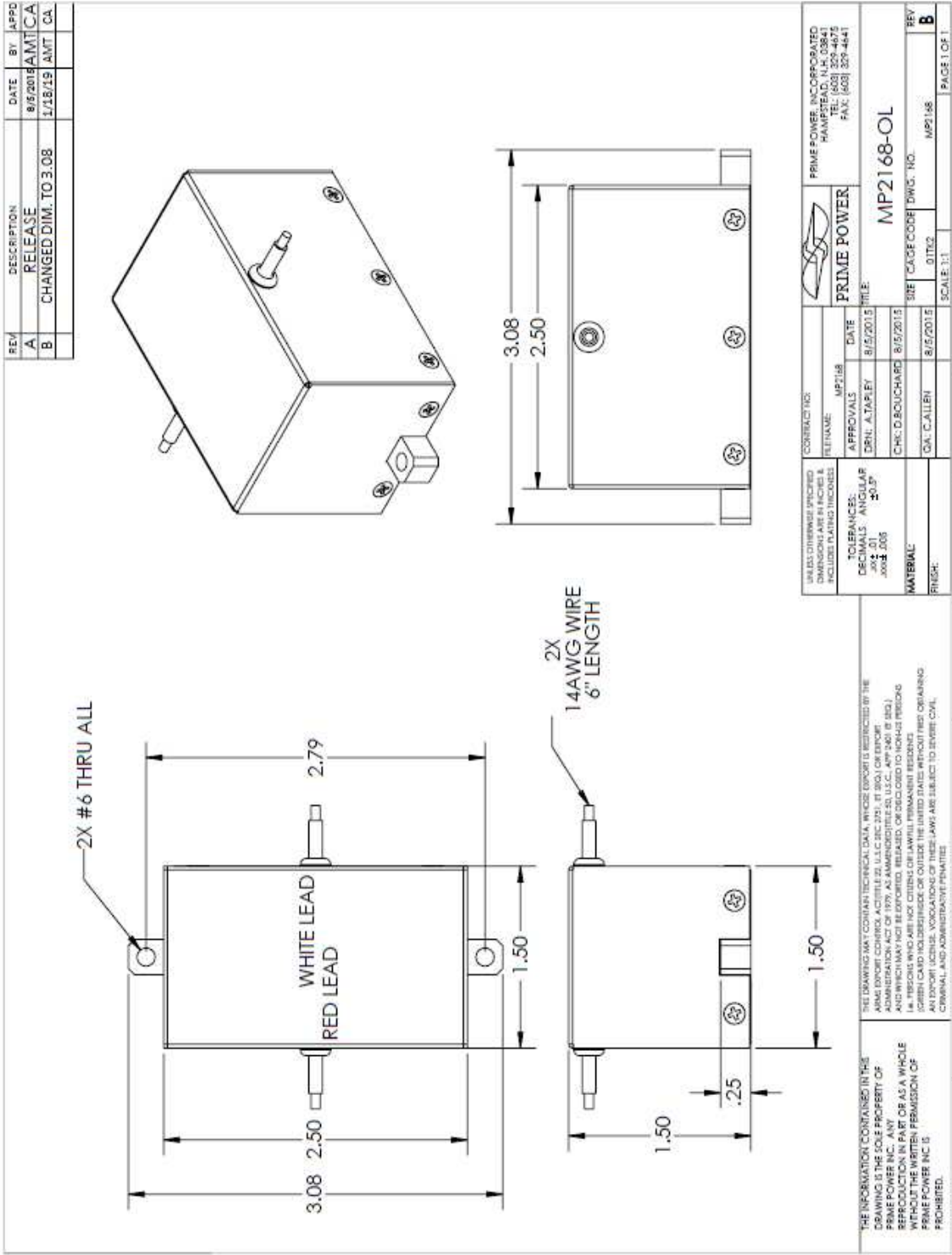
* These are typical tests performed on similar designed ruggedized product.

TEMPERATURE SPECIFICATIONS	
OPERATING TEMPERATURE	-46°C – 85°C
STORAGE TEMPERATURE	-46°C – 125°C



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