

DESCRIPTION:

PMI MODEL NUMBER DLVA-6G18G-50-OPT50MV IS A DLVA (DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 6GHz TO 18GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

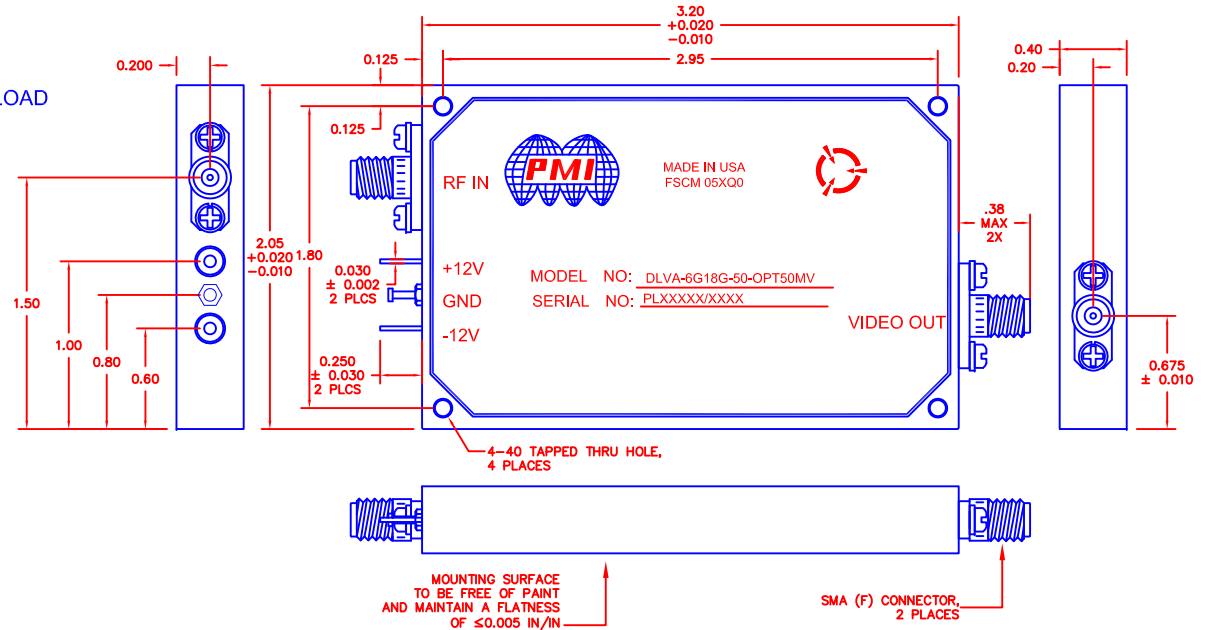
SPECIFICATIONS:

- FREQUENCY: _____ 6.0 GHz TO 18.0 GHz
- TSS: _____ -72 dBm MINIMUM
- VSWR: _____ 3.0:1 MAXIMUM
- VIDEO OUTPUT RANGE: _____ 0 VDC TO 2.2 VDC INTO A 50Ω LOAD
- MAX VIDEO OUTPUT: _____ 2.4 V
- INPUT POWER: _____ +20 dBm CW MAXIMUM
- LOG RANGE: _____ -70dBm to 0 dBm
- LOG ACCURACY: _____ ±4.0 dB MAXIMUM
- LOG SLOPE: _____ 50 mV/dB (±10%) @ 50Ω LOAD
- LOG SLOPE INTERCEPT POINT: _____ AT -70dBm RF INPUT
VIDEO OUTPUT = 350mV (NOM) @ +25 deg. C
- PULSE RANGE: _____ 100 ns to CW
- PULSE RISE TIME (10% TO 90%) _____ < 50 ns
- PULSE OVERSHOOT: _____ 1 dB MAXIMUM WITH 50Ω LOAD
- PULSE FALL TIME (90% OT 10%): _____ < 70 ns
- RECOVERY TIME: _____ < 70 ns @ -10 dBm
- PROPAGATION DELAY TIME: _____ < 15 ns
- POWER SUPPLY: _____ +12VDC ±6% @ 400 mA MAXIMUM
-12VDC ±6% @ 250 mA MAXIMUM
- CONNECTORS: _____ SMA FEMALE CONNECTORS
- FINISH: _____ PAINTED BLUE
- MOUNTING SURFACE: _____ GOLD PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE: _____ -35°C TO +90°C (OPERATING)
-35°C TO +49°C (NON-OPERATING)
- HUMIDITY: _____ MIL-STD-810, METHOD 507
- SHOCK: _____ HANDLING / MIL-STD-810, METHOD 516, FIG. 5a, 5b, 5c
HIGH IMPACT / MIL-STD-810 METHOD 516, FIG. 8a, 8b, 8c
HIGH FREQUENCY / MIL-STD-810 METHOD 516, FIG.9
- ACCELERATION _____ MIL-STD-810, METHOD 513, (NON-OPERATIONAL)
- RANDOM VIBRATION: _____ MIL-STD-810, METHOD 514, FIG. 3 (NON-OP), FIG. 4a, 4b (OPERATIONAL)
- ALTITUDE: _____ 0 - 31,000 feet
- EXPLOSIVE ATMOSPHERE _____ MIL-STD-810, METHOD 511
- FUNGUS: _____ MIL-STD-810C, METHOD 508 (Notes:A, B & C)
- TEMPERATURE CYCLE: _____ MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



TOLERANCES:
ALL DIMENSIONS ARE IN INCHES

X.XX ±0.020
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	08/29/17	

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>EMF</i>		3/29/17	PRODUCT FEATURE DLVA-6G18G-50-OPT50MV			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
ISSUED			SCALE N:S	SHEET 1 OF 1		