

**DESCRIPTION:**

PMI MODEL NUMBER DLVA-6D5G18G-70-JMAKG1 IS A DLVA (DETECTOR LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 6.5GHz TO 18GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

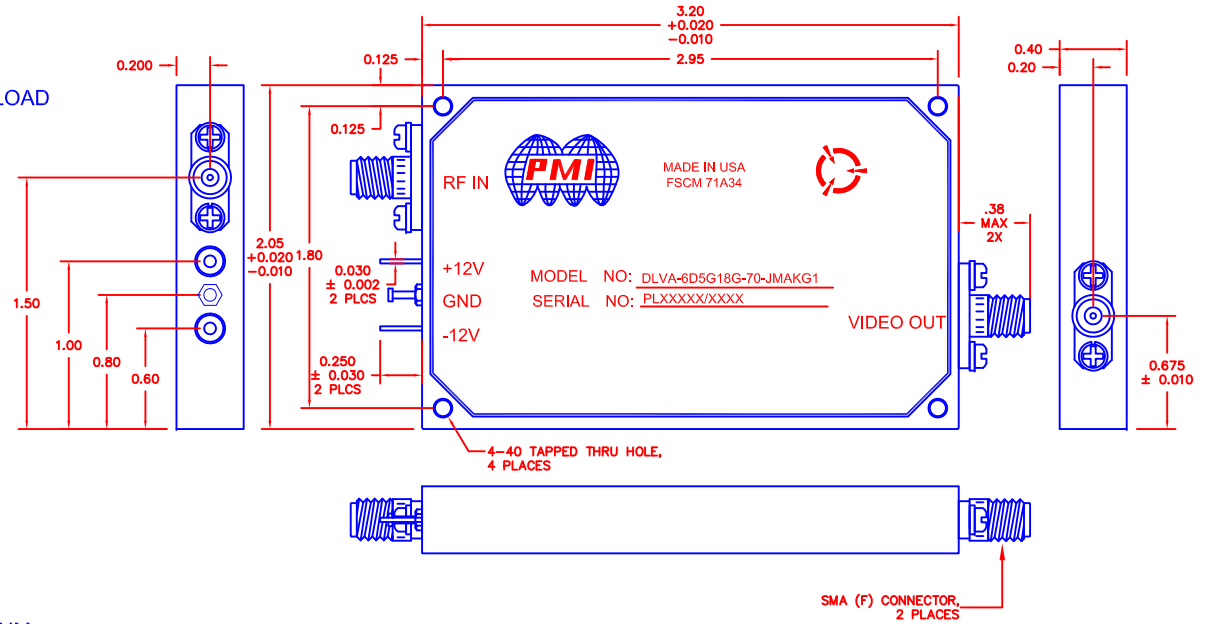
**SPECIFICATIONS:**

- FREQUENCY: \_\_\_\_\_ 6.5 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 SLOPE: \_\_\_\_\_ 25 mV/dB (±10%) @ 50Ω LOAD
- LOG LINEARITY: \_\_\_\_\_ ±1.5 dB TYP ±1.75 dB MAX
- LOG ACCURACY: \_\_\_\_\_ ±2.0 dB TYP ±2.5 dB MAX
- PULSE RANGE: \_\_\_\_\_ 100 ns to CW
- PULSE RISE TIME (10% TO 90%) \_\_\_\_\_ < 30 ns
- PULSE OVERSHOOT: \_\_\_\_\_ 0.0 dB 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: \_\_\_\_\_ GOLD PLATING

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: \_\_\_\_\_ -54°C TO +85°C (OPERATING)  
 \_\_\_\_\_ -54°C TO +100°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



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	7-5-18	
	2	PRELIMINARY	7-10-18	
	3	PRELIMINARY	7-18-18	

PMI CONFIDENTIAL AND PROPRIETARY

**PLANAR MONOLITHICS INDUSTRIES, INC.**

4921 ROBERT J. MATHEWS PKWY#1  
 EL DORADO HILLS, CA 95762  
 TEL: 916-542-1401 FAX: 916-265-2597  
 WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
 E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>JM</i>		7-5-18	PRODUCT FEATURE DLVA-6D5G18G-70-JMAKG1		
CHECKED			SIZE A	FSCM NO. 71A34	REV. 3
ISSUED			DWG NO.	PRELIMINARY	
			SCALE N:S	SHEET 1 OF 1	

TOLERANCES:  
 ALL DIMENSIONS ARE IN INCHES

X.XX ±0.020  
 X.XXX ±0.010