

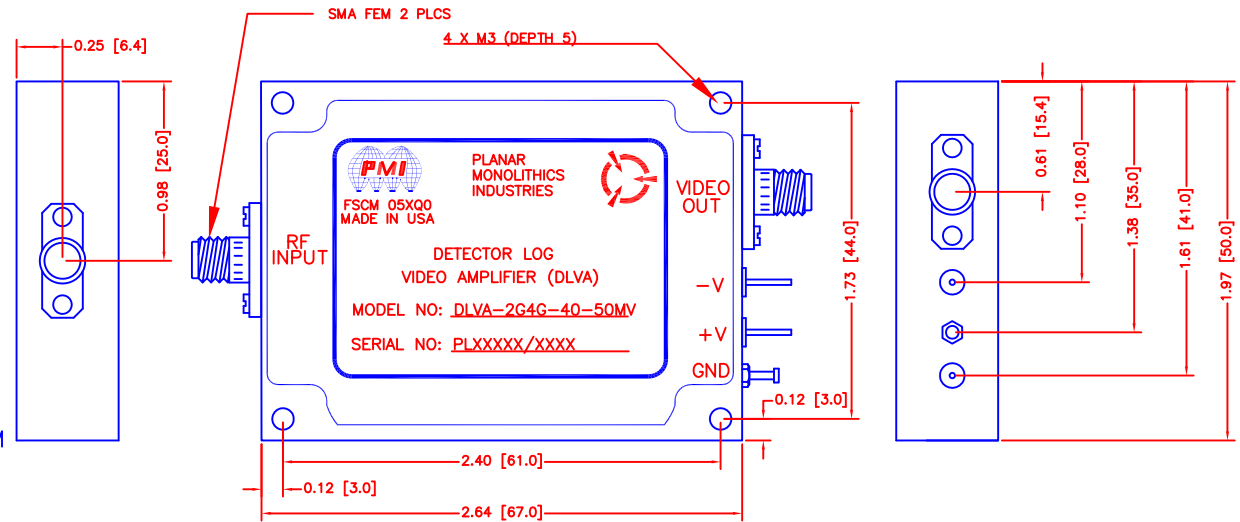
## DESCRIPTION

PMI MODEL DLVA-2G4G-40-50MV IS A 40 dB DETECTOR LOG VIDEO AMPLIFIER DESIGNED TO OPERATE BETWEEN THE 2GHz TO 4GHz FREQUENCY RANGE. IT EMPLOYS PLANAR DIODE DETECTORS AND INTEGRATED VIDEO CIRCUITRY FOR HIGH SPEED PERFORMANCE AND OUTSTANDING RELIABILITY. IT IS OF SUPERIOR CONSTRUCTION USING STATE-OF-THE-ART MIC/MMIC TECHNOLOGY.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	2-20-19	

## SPECIFICATIONS

- FREQUENCY RANGE: 2GHz TO 4GHz
- FREQUENCY FLATNESS:  $\pm 0.5$  dB MAXIMUM
- LOGGING RANGE: -40 TO 0 dBm MINIMUM
- LOG LINEARITY:  $\pm 1.0$  dB MAXIMUM
- LOG SLOPE: 50 mV/dB  $\pm 2$ mV/dB
- OUTPUT VOLTAGE: +2.2V  $\pm 0.1$ V @ 0dBm  
+0.2V  $\pm 0.1$ V @ -40dBm
- VIDEO BW RANGE: DC TO 7MHz MINIMUM
- RISE TIME: 40 ns MAXIMUM
- TSS: -43 dBm MAXIMUM
- VSWR: 2.0:1 MAXIMUM
- VIDEO LOAD: 100 OHMS NOMINAL
- DC POWER
  - +V: 15V $\pm 0.3$ V @ 100 mA MAXIMUM
  - V: 15V $\pm 0.3$ V @ 45 mA MAXIMUM
- SIZE: 2.64" x 1.97" x 0.56"
- FINISH: NICKEL PLATED
- CONNECTORS SMA FEMALE
- WEIGHT 110g MAX



PMI CONFIDENTIAL AND PROPRIETARY

## ENVIRONMENTAL RATINGS

- **TEMPERATURE:** -0°C TO +60°C (OPERATING)  
-40°C TO +60°C (STORAGE)
- **HUMIDITY:** 95% RH (+60°C) MAX, NO CONDENSATION

## PLANAR MONOLITHICS INDUSTRIES, INC.

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



NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

TOLERANCE:  $\pm 0.02$  [0.5]

APPROVALS		DATE	TITLE			
DRAWN <i>JM</i>		2-20-19	PRODUCT FEATURE DLVA-2G4G-40-50MV			
MODIFIED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	71A34	PRELIMINARY	-
			SCALE	N:S		SHEET 1 OF 1