

## DESCRIPTION

PMI MODEL HADA-D1009 IS A DC COUPLED DETECTOR LOG VIDEO AMPLIFIER THAT OPERATES FROM 3.0 TO 3.4 GHz. SEE FULL SPECIFICATIONS BELOW.

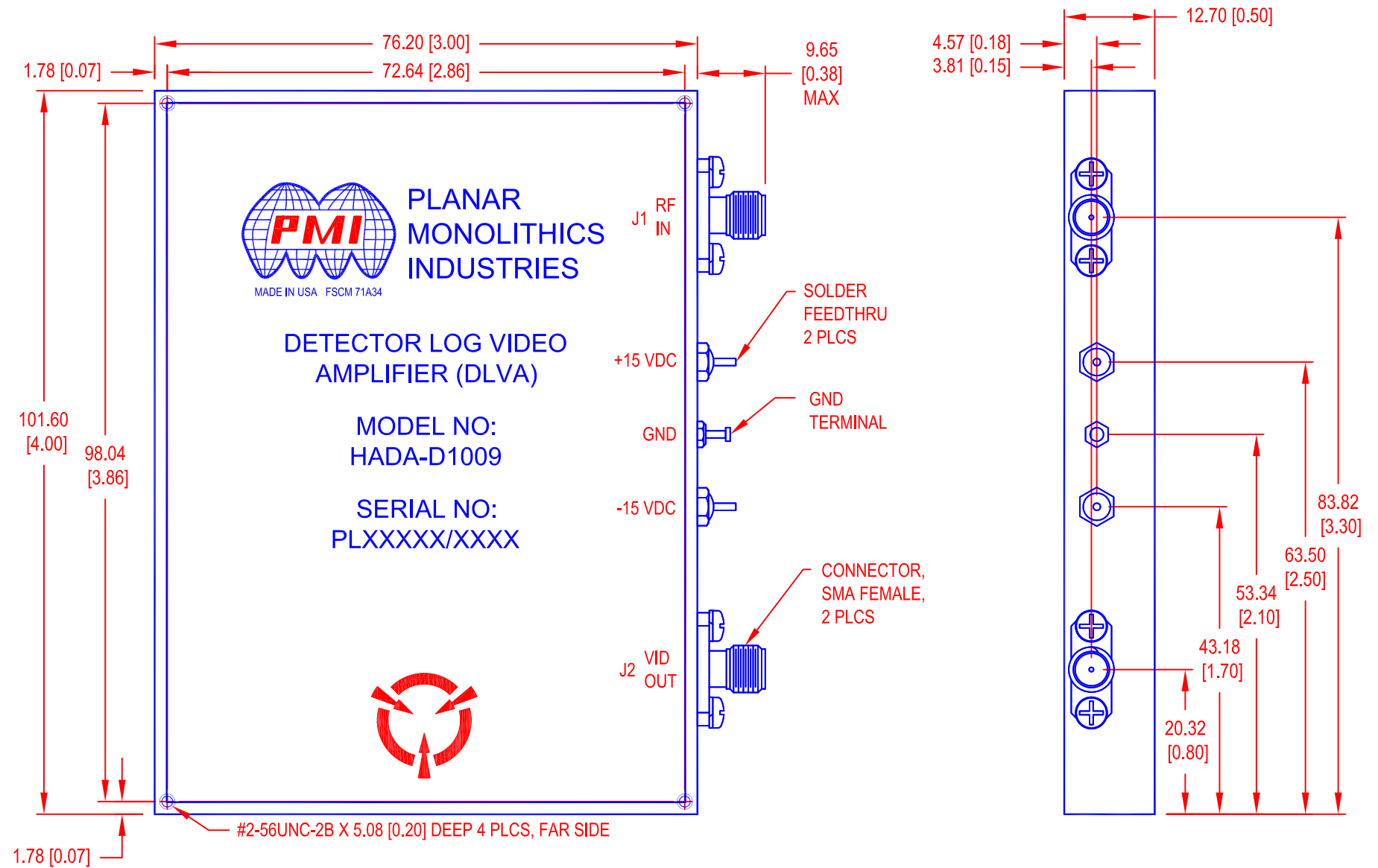
## SPECIFICATIONS

- FREQUENCY: 3.0 GHz TO 3.4 GHz
- TSS: -73 dBm MAXIMUM
- INPUT VSWR (50 Ω): 2.0:1 MAXIMUM (2 - 4 GHz)
- LOGGING RANGE: -70 TO +3 dBm
- LOG LINEARITY: ± 1.0 dB
- LOGGING SLOPE: +50 ± 3 mV/dB
- FLATNESS : 50 mV MAX
- RF SAFE INPUT POWER: +20 dBm MAX CW (WITHOUT DAMAGE)
- MAXIMUM OUTPUT VOLTAGE: +2.5 V MAX
- OUTPUT DRIFT: 150 mV @ -61 dBm OVER TEMP & FREQUENCY
- VIDEO LOAD IMPEDANCE: 93 Ω TYP
- VIDEO RISE TIME: 20 ns MAX
- RECOVERY TIME: 0.5 μs
- VIDEO OUTPUT: 600 mV +/- 100 mV @ 3.2 GHz, 25 °C, -70 dBm
- POWER SUPPLY: +12 TO +15.5 VDC @ 450 mA MAX  
-12 TO -15.5 VDC @ 150 mA MAX
- CONNECTORS: SMA FEMALE CONNECTORS
- FINISH: ELECTROLESS NICKEL PLATE
- WEIGHT: 200 g MAX

## ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °C TO + 70 °C (CONTINUOUS OPERATION)
- ALTITUDE: 0-7000 FT
- HUMIDITY: 95% @ 70 °C MAX
- VIBRATION: 16Hz, 3mm/3G

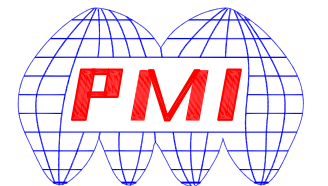
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ECN # 16-0056	4/14/16	



**PMI CONFIDENTIAL AND PROPRIETARY**

**PLANAR MONOLITHICS INDUSTRIES, INC.**

4921 Robert J. Mathews Pkwy. Suite #1  
 El Dorado Hills, CA 95762 USA  
 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



ALL DIMENSIONS ARE IN mm [INCH]

TOLERANCES:

X.XX ±0.762 [0.030]  
 X.XXX ±0.254 [0.010]

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

APPROVALS		DATE	TITLE		
DRAWN <i>jm</i>		4/14/16	PRODUCT FEATURE		
CHECKED			HADA-D1009		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	71A34	DWG000025-PMI
			SCALE	N:S	SHEET 1 OF 1
					REV. A1