

DESCRIPTION

PMI MODEL GMDA-2G6G-50MV IS AN EXTENDED DYNAMIC RANGE DLVA DESIGNED TO OPERATE OVER THE 2.0 TO 6.0 GHz 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.

SPECIFICATIONS

- FREQUENCY: _____ 2.0 GHz TO 6.0 GHz
- TSS: _____ -65 dBm MINIMUM
- INPUT VSWR (50Ω): _____ 2.0:1 MAXIMUM
- LOGGING RANGE (FIG. 1): _____ -60 TO +10 dBm
- LOG LINEARITY (FIG. 1): _____ ± 1.0 dB AT ROOM TEMPERATURE
 ± 1.5 dB MAX OVER TEMPERATURE
- LOGGING SLOPE (FIG. 1, 2): _____ $+50 \pm 2$ mV/dB AT ROOM TEMPERATURE
 $+50 \pm 3$ mV/dB OVER TEMPERATURE
 $+50$ mV/dB TYP.
- FLATNESS (FIG 3): _____ 100 mV MAX.
- RF SAFE INPUT POWER: _____ +23 dBm MAX CW (WITHOUT DAMAGE)
- MAXIMUM OUTPUT VOLTAGE: _____ +4.2 V MAX.
- VIDEO LOAD IMPEDANCE: _____ TWISTED PAIR INTO 100 OHMS
- VIDEO RISE TIME (FIG. 4): _____ 30 ns MAX.
- RECOVERY TIME (FIG. 4): _____ 500 nsec
- THROUGHPUT TIME (FIG. 4): _____ 30 ns MAX.
- VIDEO BANDWIDTH: _____ 10 MHz TYP.
- OFFSET VOLTAGE: _____ ± 100 mV MAX.
- LEADING AND TRAILING EDGE: _____ SEE FIGURE 5
- REVERSE SHOOT AND SLOPE REVERSE _____ SEE FIGURE 6
- POWER SUPPLY: _____ +12 TO +15.5 VDC @ 400 mA MAX.
-12 TO -15.5 VDC @ 165 mA MAX.
- CONNECTORS : _____ RF INPUT SMA FEMALE
- FINISH: _____ ELECTROLESS NICKEL PLATE
- WEIGHT: _____ 220 g MAX.

ENVIRONMENTAL RATINGS

- TEMPERATURE: _____ -15°C TO + 85°C (CONTINUOUS OPERATION)
-20°C TO +85°C (STORAGE)
- ALTITUDE: _____ 0-30,000 FT
- HUMIDITY: _____ MIL-E-5400T 3.2.24.4, 100% RH
- VIBRATION: _____ MIL-E-5400T 3.2.24.5, FIGURE 2
SHEET 1 OF 3, CURVE III
- SHOCK: _____ MIL-E-5400T 3.2.24.6.1
15 G 11 ± 1 msec, 6 DIRECTIONS

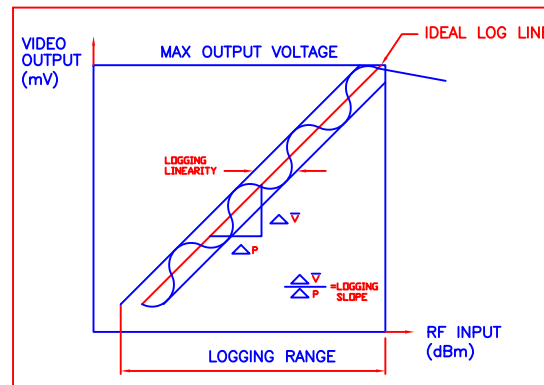


FIGURE 1 RF INPUT POWER
vs VIDEO OUTPUT VOLTAGE

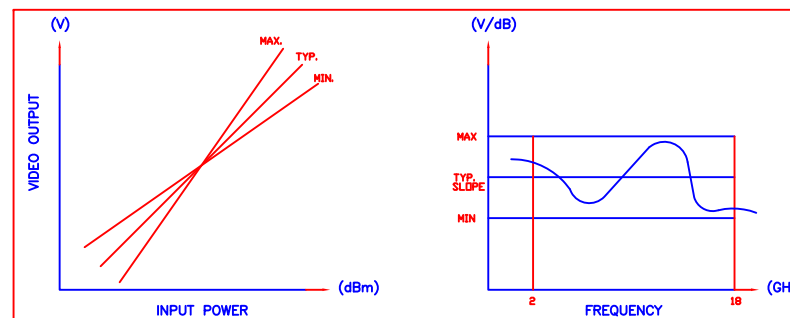


FIGURE 2 LOGGING SLOPE

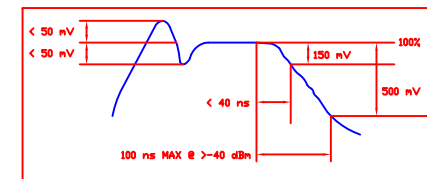


FIGURE 5: PULSE

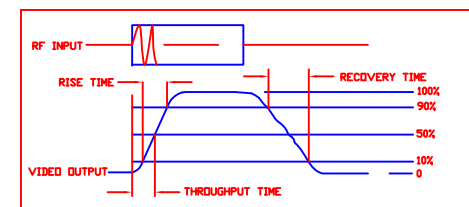


FIGURE 4: PULSE RESPONSE

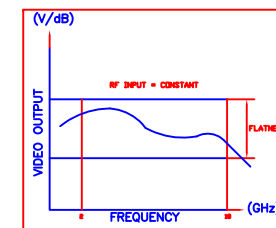


FIGURE 3: FLATNESS

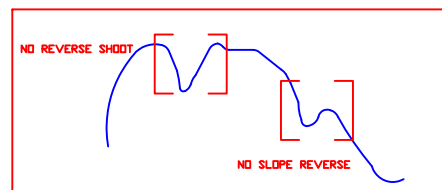


FIGURE 6: REVERSE

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.030
X.XXX ± 0.010

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED

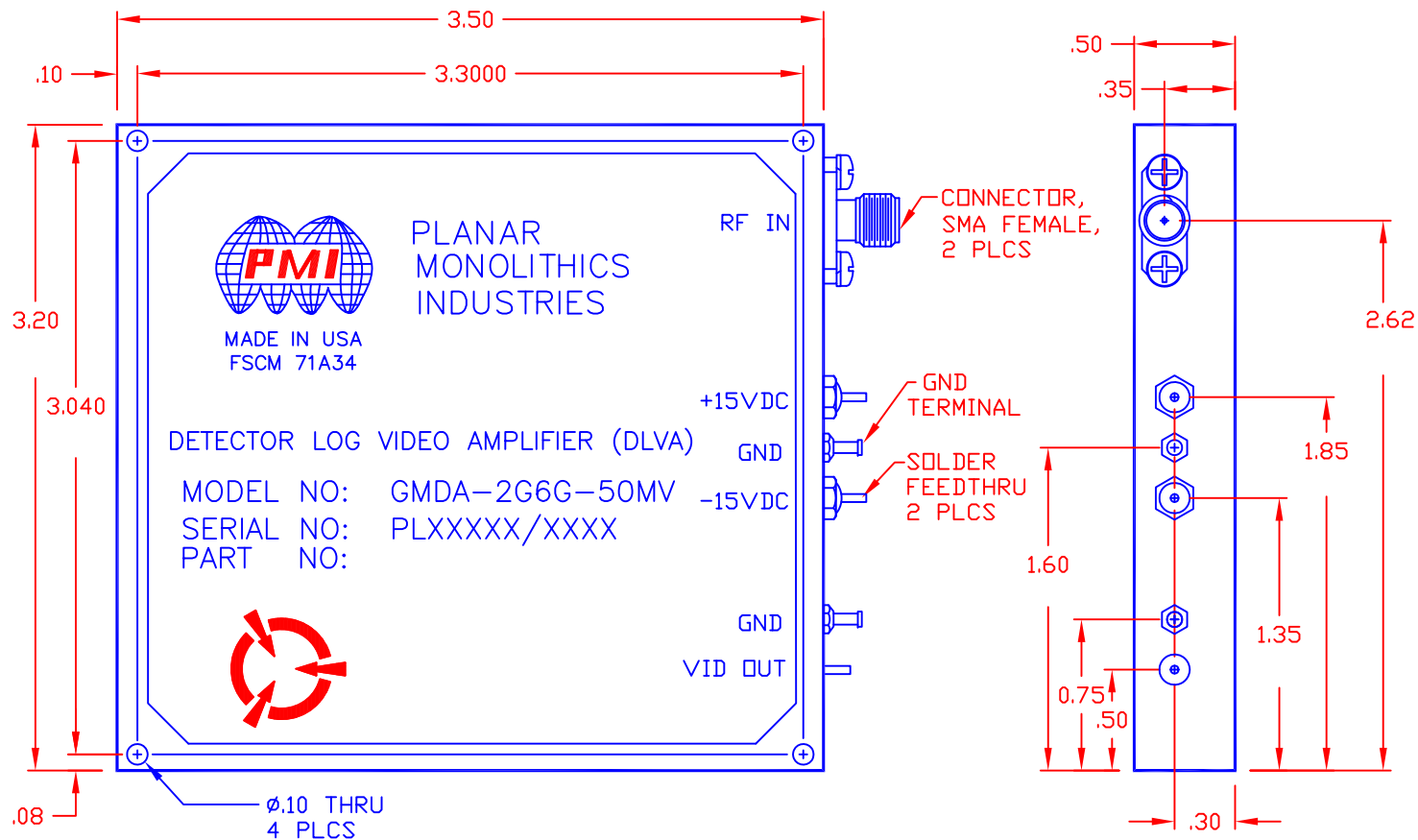
APPROVALS		DATE		TITLE	
DRAWN		9-10-15		PRODUCT FEATURE	
CHECKED				GMDA-2G6G-50MV	
ISSUED				2.0 - 6.0 GHz DLVA	
SIZE		FSCM NO.		DWG NO.	
A		71A34		27028201	
SCALE		N:S		SHEET	
				1 OF 2	

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	9/10/15	JM



MECHANICAL OUTLINE

PMI CONFIDENTIAL AND PROPRIETARY

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SCALE	N:S			SHEET	2 OF 2