DESCRIPTION

PMI MODEL GMDA-D1006 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.

	REVISIONS											
ZONE	REV.	DESCRIPTION	DATE	APPROVED								
	Α1	ECN # 16-0056	4/6/16									
		"										

SPECIFICATIONS

- FREQUENCY: 2.0 GHz TO 6.0 GHz
- • TSS: ---
- 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): +25±1 mV/dB AT ROOM TEMPERATURE
 - +25±1,5 mV/dB OVER TEMPERATURE
 - +25 mV/dB TYP.
- FLATNESS (FIG 3): ______ 50 mV MAX.
- RF SAFE INPUT POWER: +23 dBm MAX CW (WITHOUT DAMAGE)
- MAXIMUM OUTPUT VOLTAGE: ———+2.5 V MAX.
- VIDEO LOAD IMPEDANCE: ——75 Ω TYP.
- VIDEO RISE TIME (FIG. 4): ———————30 ns MAX.
- RECOVERY TIME (FIG. 4): 1 usec
- THROUGHPUT TIME (FIG. 4): ______ 30 ns MAX.
- VIDEO BANDWIDTH: 10 MHz TYP.
- OFFSET VOLTAGE: ±50 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:
 SMA FEMALE CONNECTORS
- ---ELECTROLESS NICKEL PLATE FINISH:——
- WEIGHT: —_______220 g MAX.

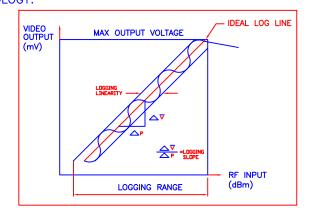


FIGURE 1 RF INPUT POWER vs VIDEO OUTPUT VOLTAGE

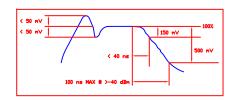


FIGURE 5: PULSE

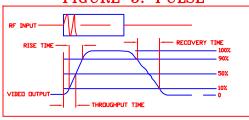


FIGURE 4: PULSE RESPONSE

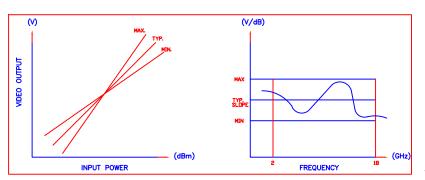


FIGURE 2 LOGGING SLOPE

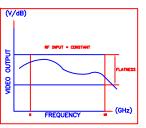


FIGURE 3: FLATNESS

PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

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

FIGURE 6: REVERSE

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ISO 9001 CERTIFIED



			PRODUCT FEATURE						
APPROVALS	DATE								
drawn jgs	4/6/16	2.0 – 6.0 GHz DLVA							
CHECKED		SIZE	FSCM NO.		DWG NO.				REV.
ISSUED		A 71A34		DWG000006-PMI			A1		
ISSUED		SCALE	N:S				SHEET	1 OF	2

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

