

DESCRIPTION

PMI MODEL PLVA-218-50-9G10G IS A 50 dB DETECTOR LOG VIDEO AMPLIFIER DESIGNED TO OPERATE BETWEEN THE 9 TO 10 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 RANGE: 9 TO 10 GHz
- FREQUENCY FLATNESS: ± 1.0 dB MAXIMUM
- LOGGING RANGE: -40 TO 0 dBm MINIMUM
- USEFUL RANGE: -40 TO +5 dBm
- LOG LINEARITY ERROR: ± 0.5 dB MAXIMUM
- LOG SLOPE: 50 mV/dB
- LOG SLOPE ACCURACY: $\pm 4\%$ OF AVERAGE SLOPE
- TEMPERATURE STABILITY: ± 1.0 dB MAXIMUM (-54°C TO +85°C)
- RISE TIME: 20 nSec MAXIMUM
- SETTling: 45 nSec MAXIMUM
- RECOVERY TIME: 150 nSec TYPICAL
300 nSec MAXIMUM
- TSS: -42 dBm MINIMUM
- VSWR: 3.0:1 MAXIMUM
- VIDEO OUTPUT LEVEL: 0 TO 2.5 VOLTS (50 MINIMUM LOAD)
- DC POWER (NO LOAD)
 - +V: +15V @ 75 mA MAXIMUM
 - V: -15V @ 75 mA MAXIMUM
- SIZE: 2.20" x 1.50" x 0.40"

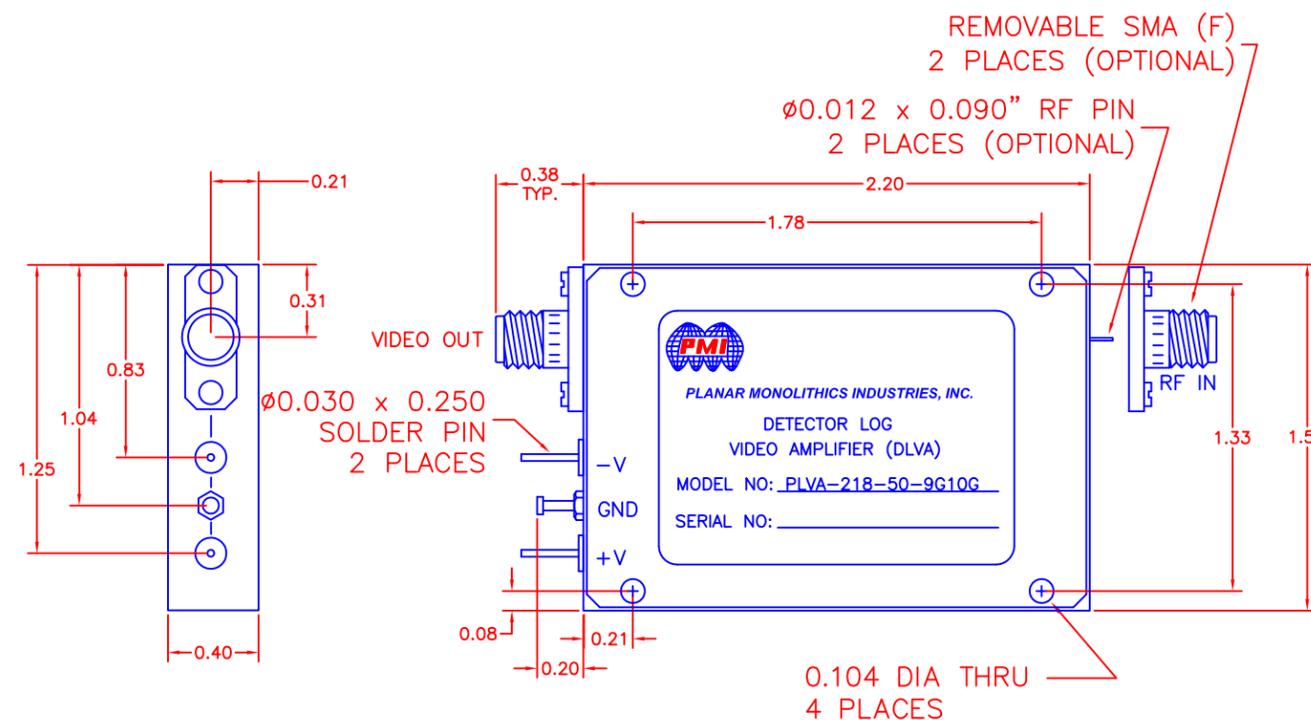
ENVIRONMENTAL RATINGS

- TEMPERATURE: -54°C TO +85°C (OPERATING)
-65°C TO +100°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	12/2/10	



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APPROVALS		DATE	TITLE		
DRAWN <i>KM</i>		12/2/10	PRODUCT FEATURE		
MODIFIED			PLVA-218-50-9G10G		
ISSUED			9-10GHz DLVA		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	2581	A		
SCALE	N:S	SHEET	1 OF 1		