

DESCRIPTION

AMC MODEL LVD-910-85 DETECTOR LOG VIDEO AMPLIFIER HAS A LOGGING RANGE OF -80 TO -40/-35dBm (TSS -85 dBm), FROM 9 TO 11 GHz, WITH LINEARITY ERROR OF LESS THAN ±0.75dB AND FREQUENCY FLATNESS OF ±1.0dB. OTHER OCTAVE OR 2-18 GHz BAND UNITS ARE AVAILABLE. RISE AND RECOVERY TIMES ARE 1.5µS MAX. DC POWER REQUIREMENTS ARE ONLY +5V @ 130mA AND -5V @ 35mA. SIZE IS 1.3" x 2.3" x 0.3".

SPECIFICATIONS

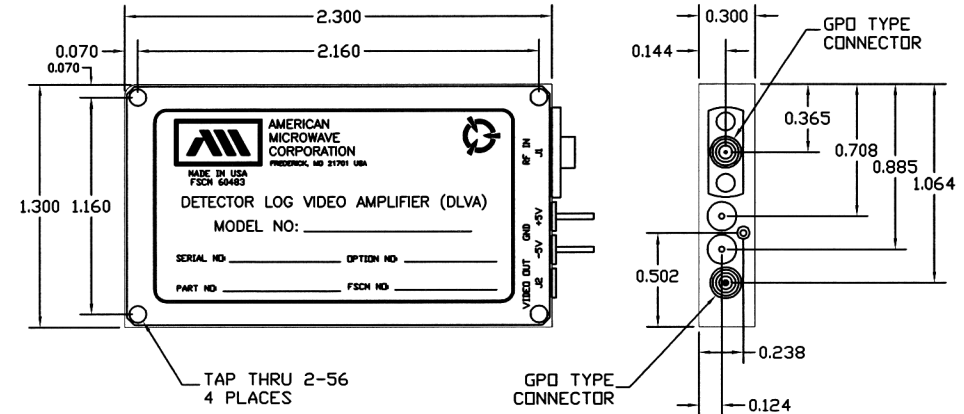
- FREQUENCY RANGE 9 TO 11 GHz
- FREQUENCY FLATNESS ±1.0dB MAXIMUM
- LOGGING RANGE -80 TO -40dBm
- LOG LINEARITY ERROR ±0.75dB MAXIMUM
- LOG SLOPE 30mV/dB
- TEMPERATURE STABILITY ±1.0 dB MAXIMUM (0° TO +60°C)
- VIDEO OFFSET 50mV MAXIMUM
- PULSE RESPONSE 3µS TO CW
- RISE TIME 1.5µS MAXIMUM
- RECOVERY TIME 1.5µS MAXIMUM
- TSS -85dBm MINIMUM
- VSWR (RF) 2:1 MAXIMUM
- POWER SUPPLY (NO VIDEO LOAD)
 - +V 5VDC @ 130mA MAXIMUM
 - V 5VDC @ 35mA MAXIMUM
- VIDEO LOAD 100Ω MINIMUM
- CONNECTORS
 - RF GILBERT GPO #946-3
 - VIDEO GILBERT GPO #944-3
 - POWER SOLDER PIN
- SIZE 2.3" X 1.3" X 0.3"

AVAILABLE OPTIONS (SPECIFY)

- A01 ALTERNATE RF FREQUENCY RANGES
- A02 IMPROVED TSS
- A03 -54 TO +85C OPERATING TEMPERATURE
- A04 ALTERNATE LOG SLOPES
- A05 FASTER PULSE RESPONSE
- A06 SMA (FEMALE) CONNECTORS

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	11/12/92	
	B	ECN# 04-024	2/23/04	

MECHANICAL OUTLINE




NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ±0.020
X.XXX ±0.010
- 3) WEIGHT: 1.5 OZ

ENVIRONMENTAL RATINGS

- TEMPERATURE 0°C TO +60°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

		AMERICAN MICROWAVE CORPORATION 7311G GROVE RD., FREDERICK, MD. 21701 TEL: (301) 662-4700 FAX: (301) 662-4938		
				PRODUCT FEATURE LVD-910-85 9 TO 11 GHz, HIGH EFFICIENCY, SMALL SIZE 40/45dB DLVA WITH PICOWATT SENSITIVITY
APPROVALS	DATE	SIZE	SHEET 1 OF 2	DWG. # 100-2803
DRAWN WSP	11/12/92	A		
CHECKED JA	2/24/04			