

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	2/23/04	

DESCRIPTION

AMC MODEL LVD-910-85 DETECTOR LOG VIDEO AMPLIFIER HAS A LOGGING RANGE OF -80 TO -40/-35dBm (TSS -85 dBm), FROM 9.3 TO 10.8 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 1.5uS MAX. DC POWER REQUIREMENTS ARE ONLY +5V @130mA AND -5V @35mA. SIZE IS 1.3" x 2.3" x 0.3".

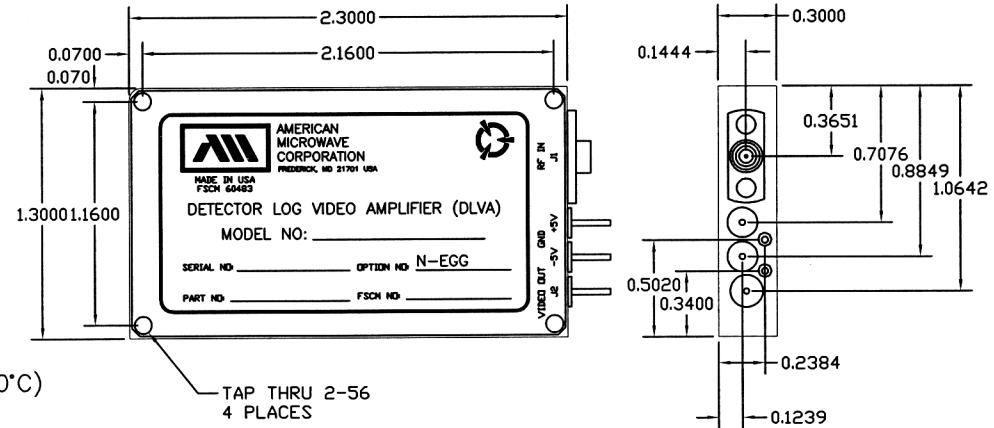
SPECIFICATIONS

- FREQUENCY RANGE 9.3 TO 10.8 GHz
- FREQUENCY FLATNESS ±1.0dB MAXIMUM
- LOGGING RANGE -80 TO -35dBm
- LOG LINEARITY ERROR ±0.75dB MAXIMUM
- LOG SLOPE 47mV/dB ±5%
- ABSOLUTE ACCURACY WITH FREQUENCY; ±2.0 dB MAXIMUM POWER, TEMPERATURE OFFSET
- TEMPERATURE STABILITY ±1.0 dB MAXIMUM (-20° TO +60°C)
- VIDEO OFFSET 50mV MAXIMUM
- PULSE RESPONSE 3uS TO CW
- RISE/FALL TIME 1.5uS MAXIMUM
- RECOVERY TIME 30uS MAXIMUM
- TSS -85dBm MINIMUM
- VSWR (RF) 2:1 MAXIMUM
- POWER SUPPLY (NO VIDEO LOAD)
 - +V 5VDC @ 120mA MAXIMUM
 - V 5VDC @ 30mA MAXIMUM
- VIDEO LOAD 100Ω MINIMUM
- CONNECTORS
 - RF GILBERT GPO #946-3
 - VIDEO SOLDER PIN
 - POWER SOLDER PIN
- SIZE 2.3" X 1.3" X 0.3"
- VIDEO NOISE 60mV PP MAXIMUM

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

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 -20°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



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APPROVALS	DATE
DRAWN <i>JKM</i>	2/23/04
CHECKED <i>MA</i>	2/24/04

PRODUCT FEATURE

LVD-910-85 OPTION: N-EGG

9 TO 11 GHz, HIGH EFFICIENCY, SMALL SIZE 40/45dB DLVA WITH PICOWATT SENSITIVITY

SIZE A SHEET 1 OF 2 DWG. # 100-6927