

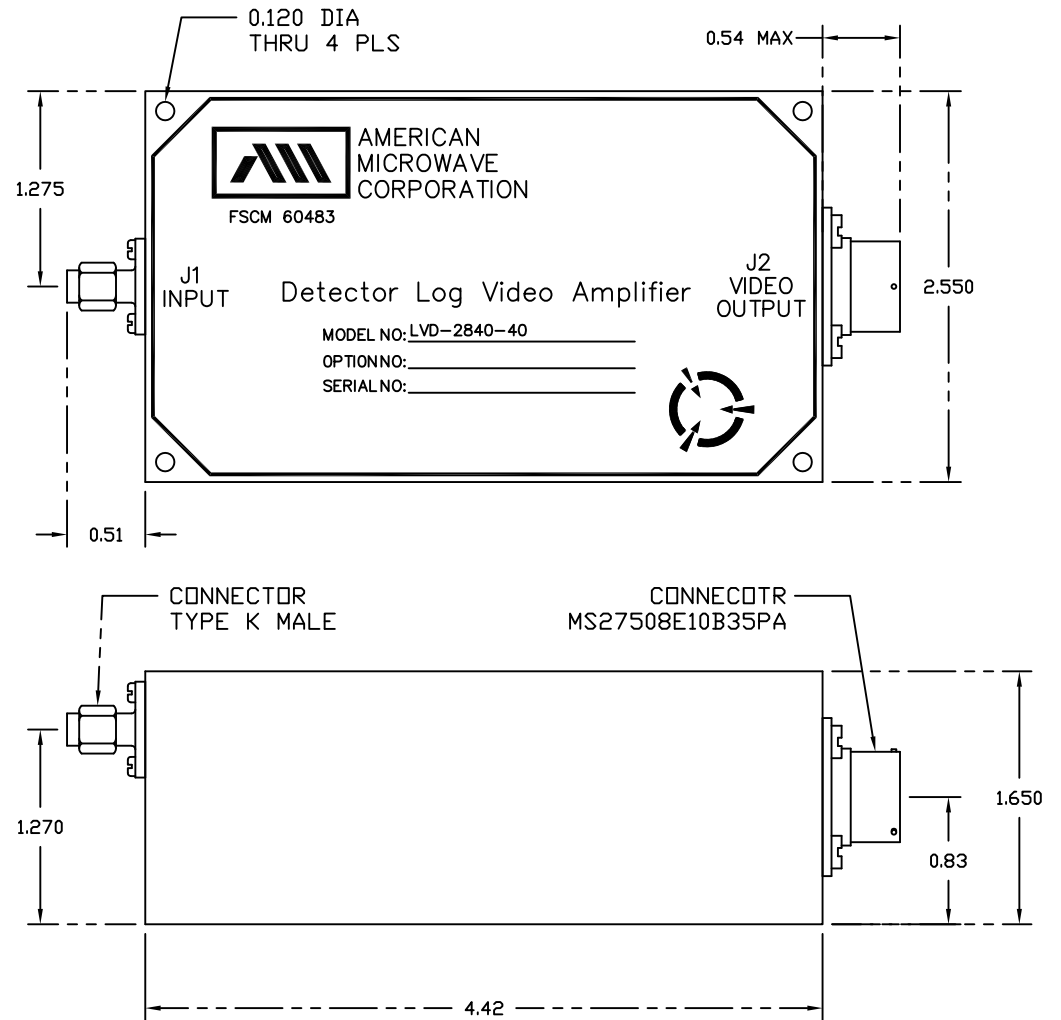
**DESCRIPTION:**

MILLIMETER WAVE DETECTOR LOG VIDEO AMPIFIER

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	SEE ER# 019-19	4/17/19	RRA

**SPECIFICATIONS:**

- FREQUENCY RANGE: ..... 28 – 40 GHz
- RF POWER INPUT RANGE: ..... -30 dBm TO +10 dBm MINIMUM
- RF POWER HANDLING LEVEL: ..... +17 dBm WITHOUT DAMAGE
- INPUT VSWR (REF TO 50 ohms):... 4.5:1 MAXIMUM
- RF INPUT CHARACTERISTICS: ..... CW
- VIDEO OUTPUT CHARACTERISTICS: LOGGED DC OUTPUT VOLTAGE OVER FULL RF POWER INPUT RANGE
- SLOPE: ..... 50 mV/dB NOMINAL SEE FIGURE 1
- OUTPUT VOLTAGE DC: ..... DC OFFSET NO RF APPLIED 0.45V ±50 mV
- OUTPUT VOLTAGE AC: ..... +1.3V ±300 mV @ -30 dBm
- VIDEO IMPEDANCE: ..... 93 ohms ±5%
- NOISE OUTPUT, PEAK TO PEAK (NO RF INPUT): ... ±100 mV MAXIMUM PK-TO-PK
- FLATNESS VS FREQUENCY 28 TO 40 GHz: ..... ±300 mV MAXIMUM
- TSS: ..... -2 dB BELOW SPECIFIED INPUT POWER RANGE
- POWER SUPPLY: ..... +15V ±3% @ 375 mA MAXIMUM -15V ±3% @ 375 mA MAXIMUM POWER SUPPLY SEQUENCING SHALL NOT BE REQUIRED




**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: ..... -40°C TO +55°C (OPERATING) -62°C TO +85°C (STORAGE)
- HUMIDITY: ..... 100% CONDENSING OPERATING AND NON OPERATING
- SHOCK: ..... MIL-T-28800, CLASS 2 EQUIPMENT
- VIBRATION: ..... MIL-T-28800, CLASS 2 EQUIPMENT
- ALTITUDE: ..... 10,000 FT. OPERATING, 50,000 FT. NON-OPERATING
- SAND AND DUST: ..... MIL-T-28800, CLASS 2 EQUIPMENT
- SALT EXPOSURE: ..... MIL-T-28800, CLASS 2 EQUIPMENT
- EXPLOSIVE ATMOSPHERE: ..... MIL-T-28800
- EMI: ..... MIL-STD-461

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION  
 \* Units are designed to meet Environmental ratings but not tested.  
 If Environmental Testing is required, please contact Sales Department.

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

 AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		TITLE PRODUCT FEATURE LVD-2840-40 DETECTOR LOG VIDEO AMPLIFIER				
		ISO 9001:2015 CERTIFIED	APPROVALS RRA	DATE 4/17/19	SIZE A	FSCM NO. 60483
SCALE N: S		SHEET 1 OF 1				