

DESCRIPTION

AMC MODEL LVD-218-70H OPTION: 1415 IS A 70 dB DETECTOR LOG VIDEO AMPLIFIER DESIGNED TO OPERATE BETWEEN THE 14.6 TO 15.3 GHz BANDWIDTH, WITH TRUE DC COUPLING. 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.

FEATURES

- TRULY DC COUPLED
- WIDE BANDWIDTHS
- FAST RISE TIMES
- SHORT RECOVERY TIMES
- SUPERIOR ACCURACY
- EXTENDED DYNAMIC RANGE CAPABILITY
- MINIATURE SIZE
- 7.2 OZ WEIGHT

SPECIFICATIONS

- FREQUENCY RANGE 14.6 TO 15.3 GHz
- FREQUENCY FLATNESS ± 1 dB MAXIMUM
- TSS -77 dBm MINIMUM
- VSWR 2.0:1 MAXIMUM
- DYNAMIC RANGE 40 dB MINIMUM
- LOGGING RANGE -40 TO -80dBm MAXIMUM
- LOG LINEARITY ± 5 dB MAXIMUM
- LOG SLOPE 100 mV/dB OR AS DESIRED
- LOG SLOPE ACCURACY $\pm 5\%$ TYPICAL
- LOG TEMPERATURE STABILITY ± 1.75 dB MAXIMUM
- RISE TIME 50 nSec MAXIMUM
- RECOVERY TIME 500 nSec MAXIMUM AFTER 1 uSec 0 dBm INPUT PULSE TO WITHIN ± 1 dB OF BASELINE
- VIDEO LOAD 75 OHMS
- DC POWER (NO LOAD)
 - +V 15V @ 350 mA MAXIMUM
 - V 15V @ 200 mA MAXIMUM
- SIZE 3.00" x 3.5" x 0.5"

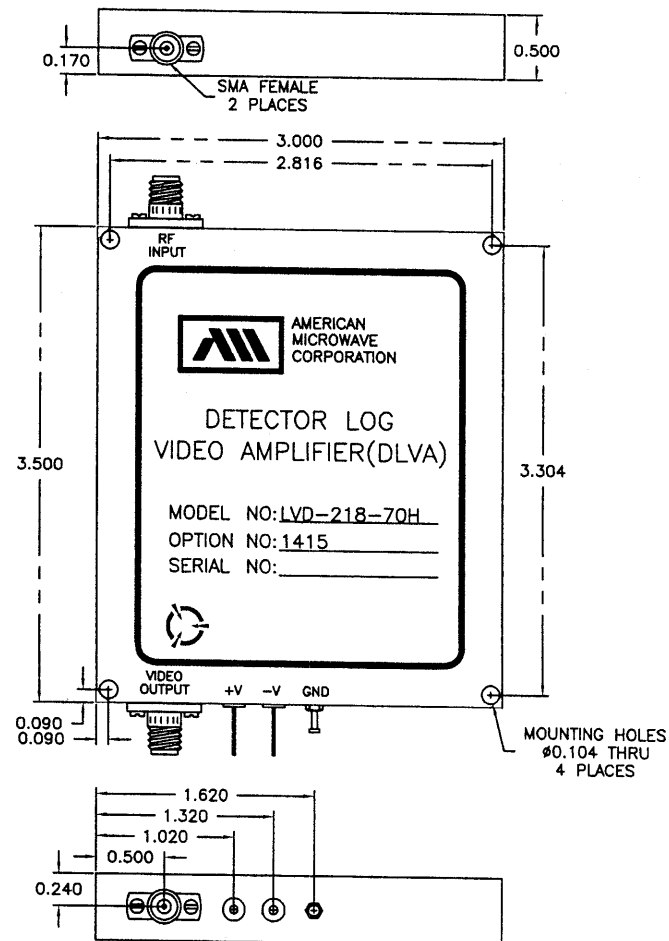
ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°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: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ± 0.020
 X.XXX ± 0.010
 WEIGHT: 7.2 oz.
 UNIT IS EPOXY SEALED

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# D209156	9/15/04	<i>JA</i>



AMERICAN MICROWAVE CORPORATION

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 ISO 9001:2000 CERTIFIED

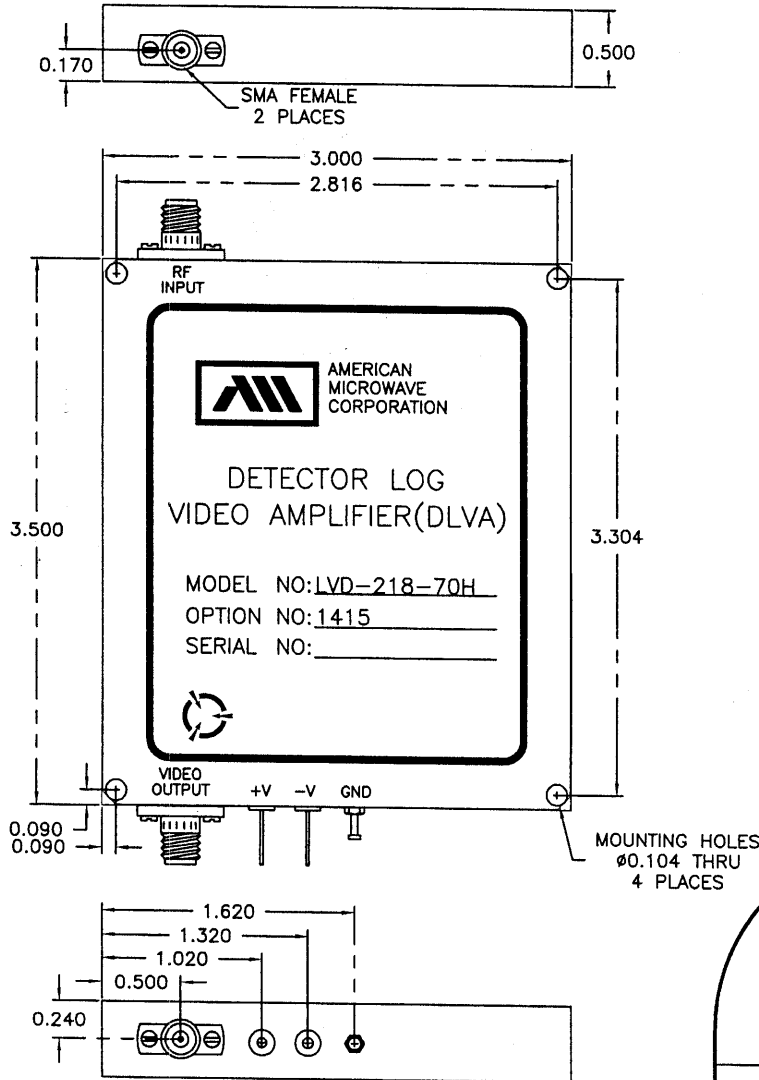


APPROVALS		DATE	TITLE			
DRAWN	<i>JDJ</i>	9/15/04	PRODUCT FEATURE LVD-218-70H OPTION: 1415 14.6 TO 15.3 GHz, DETECTOR LOG VIDEO AMPLIFIER			
CHECKED	<i>JA</i>	9/21/04	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-7121	-
			SCALE	N:S		SHEET
					1 OF 3	

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MECHANICAL OUTLINE

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DRAWN	JDJ	9/15/04	MECHANICAL OUTLINE LVD-218-70H OPTION: 1415			
CHECKED	H	9/21/04	14.6 TO 15.3 GHz, DETECTOR LOG VIDEO AMPLIFIER			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	60483	100-7121	-
			SCALE	N:S		SHEET
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