

DESCRIPTION

AMC MODEL LVD-218-70 OPTION: 218 IS A 70 dB DETECTOR LOG VIDEO AMPLIFIER DESIGNED TO OPERATE OVER THE FULL 2 TO 18 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 2 TO 18 GHz
- FREQUENCY FLATNESS ± 1.75 dB MAXIMUM
- TSS -68 dBm TYPICAL
- VSWR 3.0:1 MAXIMUM
- DYNAMIC RANGE 70 dB MINIMUM
- LOGGING RANGE -70 TO +10dBm MAXIMUM
- LOG LINEARITY ± 1.75 dB MAXIMUM
- LOG SLOPE 50mV/dB OR AS DESIRED
- LOG SLOPE ACCURACY $\pm 5\%$ TYPICAL
- LOG TEMPERATURE STABILITY ± 1.75 dB MAXIMUM
- RISE TIME 30nS MAXIMUM, 20nS TYPICAL
- RECOVERY TIME 250 nSec TYPICAL
- VIDEO LOAD 93 OHMS (TYPICAL), OR AS DESIRED
- DC POWER (NO LOAD)
 - +V 15V @ 350 mA TYPICAL, 400 mA MAXIMUM
 - V 15V @ 200 mA MAXIMUM
- SIZE 3.00" x 3.5" x 0.5"

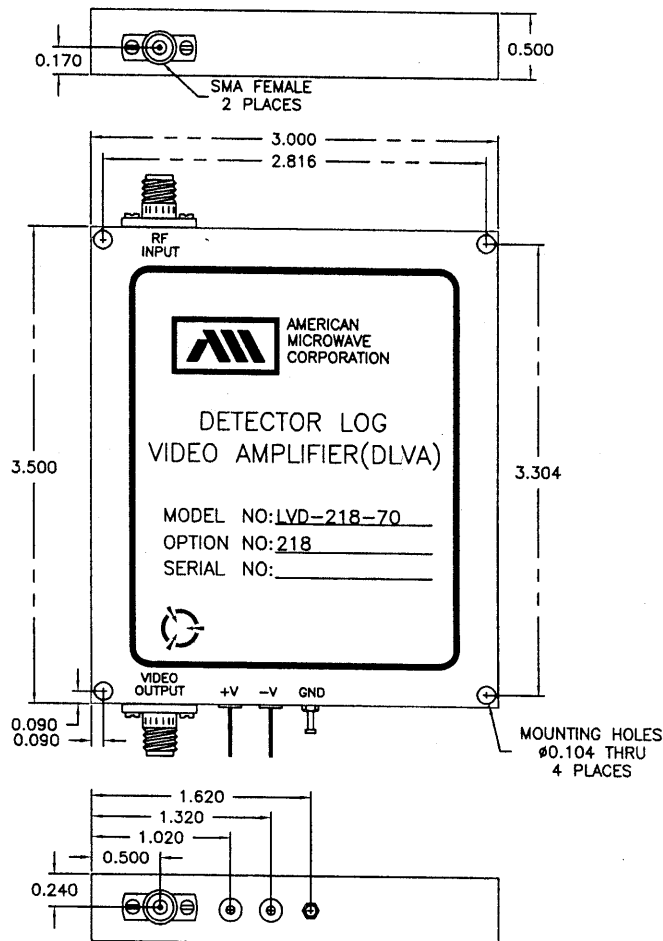
ENVIRONMENTAL RATINGS

- 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: 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# D408202	9/9/04	AA



AMERICAN MICROWAVE CORPORATION

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 ISO 9001:2000 CERTIFIED

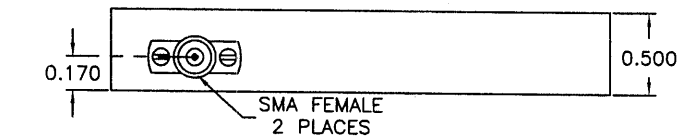


APPROVALS		DATE	TITLE		
DRAWN	JDJ	9/9/04	PRODUCT FEATURE LVD-218-70 OPTION: 218 2 TO 18 GHz, DETECTOR LOG VIDEO AMPLIFIER		
CHECKED	AA	9/9/04	SIZE	FSCM NO.	DWG NO.
ISSUED			A	60483	100-7115
			SCALE	SHEET 1 OF 3	

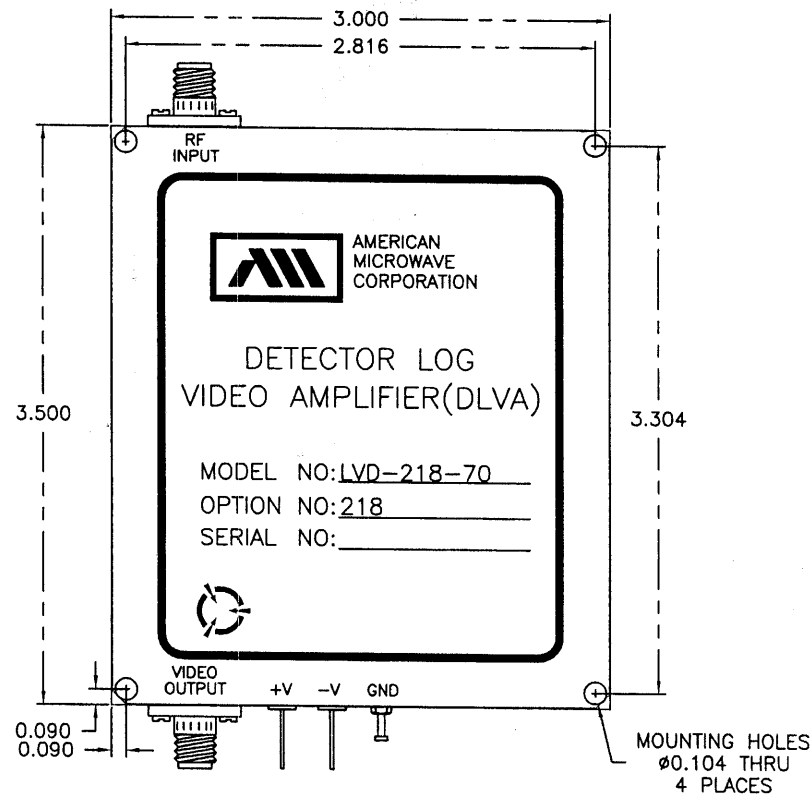
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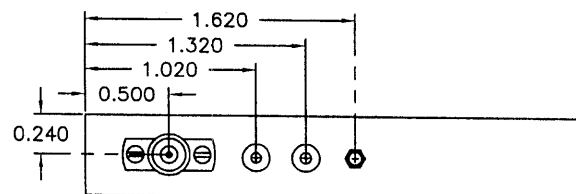
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# D408202	9/9/04	PA



MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE			
DRAWN <i>JDJ</i>		9/9/04	MECHANICAL OUTLINE LVD-218-70 OPTION: 218			
CHECKED <i>LA</i>		9/9/04	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-7115	-
			SCALE N:S		SHEET 2 OF 3	