

DESCRIPTION

AMC MODEL NUMBER LVD-218-70 OPTION: 120, 100MV IS AVAILABLE WITH -65 dBm TO -25 dBm DYNAMIC RANGE OVER THE FULL 1-20 GHz BANDWIDTH, WITH TRUE DC COUPLING. UNITS EMPLOY PLANAR DIODE DETECTORS AND INTEGRATED VIDEO CIRCUITRY FOR HIGH SPEED PERFORMANCE AND OUTSTANDING RELIABILITY. THE DLVA'S ARE OF SUPERIOR CONSTRUCTION USING STATE-OF-THE-ART MIC/MMIC TECHNOLOGY. THE SIZE IS 3.0" x 3.5" x 0.5".

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: 1 TO 20 GHz
- FREQUENCY FLATNESS: ± 1.75 dB (± 1.50 dB 6-18 GHz)
- TSS: -68 dBm (-70 dBm 6-18 GHz)
- VSWR: 2.5:1
- DYNAMIC RANGE: -65 dBm MIN (-68 dBm TYPICAL) TO -25 dBm TYPICAL
- LOGGING RANGE: -65 dBm TO +10 dBm
- LOG LINEARITY: ± 1.75 dB (± 1.5 dB 6-18 GHz)
- LOG SLOPE: 100mV/dB OR AS DESIRED
- LOG SLOPE ACCURACY: $\pm 5\%$ MAXIMUM OF AVERAGE SLOPE
- LOG TEMPERATURE STABILITY: ± 1.75 dB (± 1.50 dB 6-18 GHz)
- RISE TIME: 30nS MAXIMUM, 20nS TYPICAL
- RECOVERY TIME: 200nS TYPICAL, 300nS MAXIMUM
- VIDEO LOAD: 50 OHMS (TYPICAL), OR AS DESIRED
- DC POWER (NO LOAD)
 - +V: 9 TO 18V @ 350mA
 - V: 9 TO 18V @ 200mA MAXIMUM
- SIZE: 3.00" x 3.50" x 0.50"

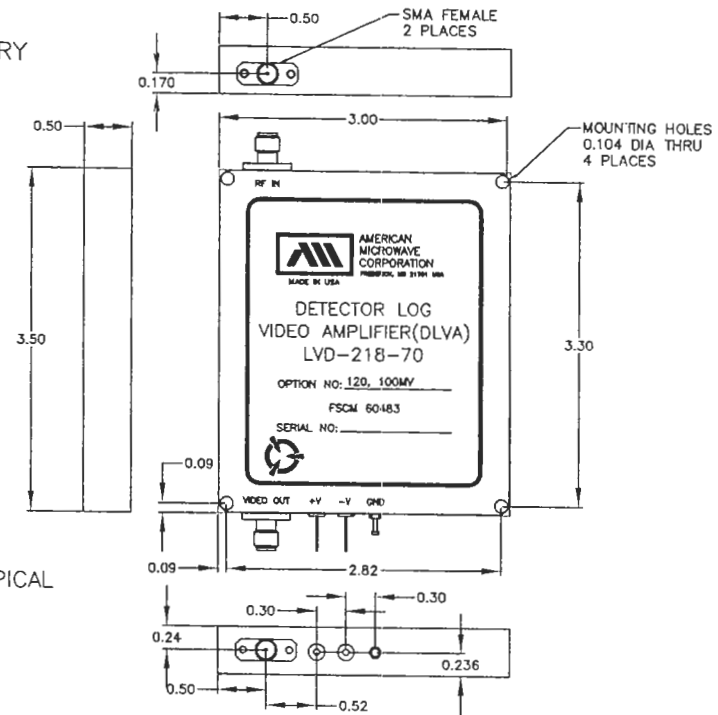
OPTIONS

- A01: EXTENDED 0.2 TO 20 GHz RF FREQUENCY RANGE
- A02: EXTENDED 0.5 TO 18 GHz RF FREQUENCY RANGE
- A03: FASTER RISE/RECOVERY TIMES
- A04: ALTERNATE LOG SLOPES
- A05: HIGH POWER RF CW/PEAK PROTECTION
- A06: EXTENDED LOGGING RANGE
- A07: OTHER VIDEO LOADS

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-		ORIGINAL RELEASE JOB# D403046X	5/29/04	



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

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APPROVALS		DATE	TITLE			REV.
DRAWN	<i>EJG</i>	5/29/04	PRODUCT FEATURE LVD-218-70 OPTION: 120, 100MV 1 TO 20 GHz, 70 dB, TRULY DC-COUPLED DETECTOR LOG VIDEO AMPLIFIER			-
REDRAWN	<i>JDJ</i>	8/10/04	SIZE	FSCM NO.	DWG NO.	
ISSUED	<i>lh</i>	8/2/04	A	60483	100-6944	
			SCALE	N:S	SHEET	1 OF 3