

DESCRIPTION

AMC MODEL LVD-218-50 OPTION 24 IS OPTIMIZED FOR 2-4 GHz, -40 TO 0 dBm, DESIGNED FOR MEASURING VSWR. 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.

FEATURES

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

SPECIFICATIONS

- FREQUENCY RANGE 2 TO 4 GHz
- FREQUENCY FLATNESS ± 1.0 dB MAXIMUM
- LOGGING RANGE -40 TO -0dBm MINIMUM
- USEFUL RANGE -40 TO +5dBm
- LOG LINEARITY ERROR ± 0.5 dB MAXIMUM (ROOM TEMP)
 ± 1.0 dB AVE (-54° TO +85°C)
- LOG SLOPE 50mV/dB
- LOG SLOPE ACCURACY $\pm 4\%$ OF AVERAGE SLOPE
- TEMPERATURE STABILITY ± 1.0 dB MAXIMUM (-54° TO +85°C)
- PULSE RESPONSE 50ns TO CW
- RISE TIME 20ns MAXIMUM
- SETTLING TIME 45ns MAXIMUM
- RECOVERY TIME 150ns TYPICAL 300ns MAXIMUM
- TSS -42 dBm TYP. (-40dBm MIN)
- VSWR (RF) 3:1 MAXIMUM
- MAXIMUM RF INPUT +15dBm
- VIDEO OUTPUT LEVEL 0 TO 2.5 VOLTS TYPICAL (50 Ω MIN LOAD)
- DC POWER (NO LOAD)
 - +V 12V @ 75MA MAXIMUM
 - V 12V @ 75MA MAXIMUM
 - OTHER VOLTAGES AVAILABLE
- SIZE 2.2" X 1.5" X 0.4"

OPTION DESCRIPTIONS

24 OPTIMIZED FOR 2 TO 4 GHz RF FREQUENCY RANGE

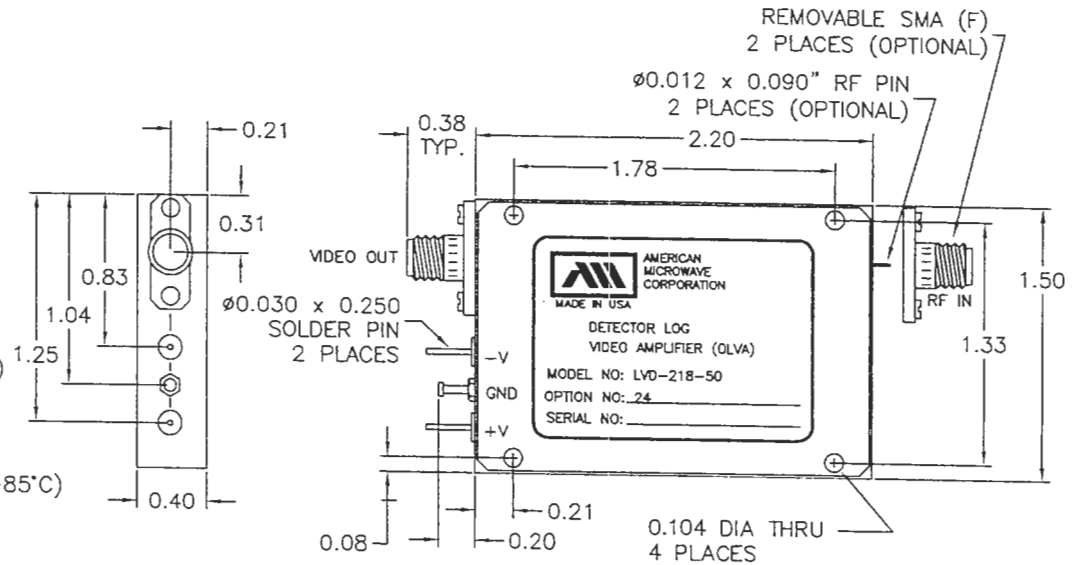
ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +85°C (OPERATING)
..... -65°C TO +125°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: 1.75 oz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# D404057	5/4/04	



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APPROVALS		DATE	TITLE		REV.
DRAWN	<i>EFE</i>	5/4/04	PRODUCT FEATURE		
REDRAWN	<i>JDJ</i>	8/31/04	LVD-218-50 OPTION: 24		
ISSUED	<i>PA</i>	9/3/04	2 TO 4 GHz, 40 dB, TRULY DC-COUPLED		
			DETECTOR LOG VIDEO AMPLIFIER		
			SIZE	FSCM NO.	DWG NO.
			A	60483	100-6985
			SCALE N:S	SHEET 1 OF 3	