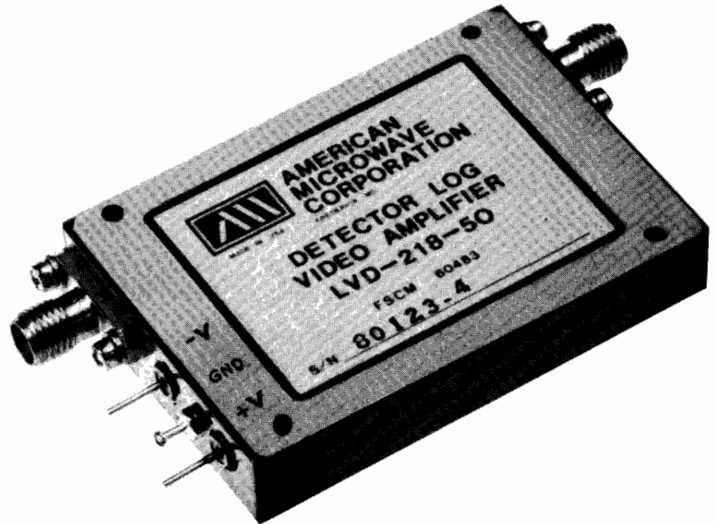


DLVA

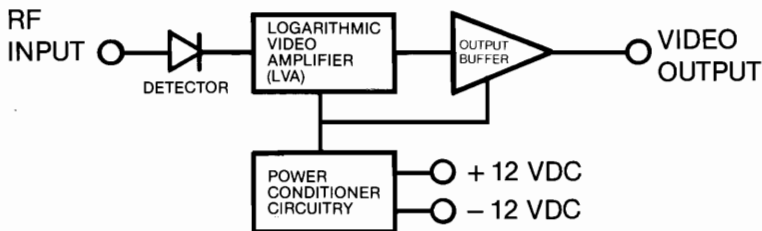
DETECTOR LOG VIDEO AMPLIFIER
2-18 GHz
LVD-218-50, 50 dB Range
LVD-218-70, 70 dB Range



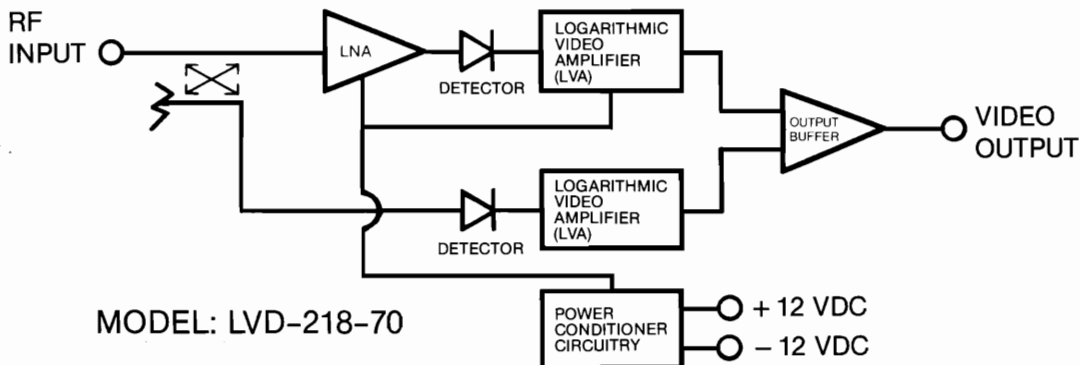
FEATURES

- DC Coupled
- Wide Bandwidth
- Fast Rise Time
- Short Recovery Time
- Superior Accuracy
- Extended Dynamic Range
- Small Size

FUNCTIONAL BLOCK DIAGRAM



MODEL: LVD-218-50



MODEL: LVD-218-70

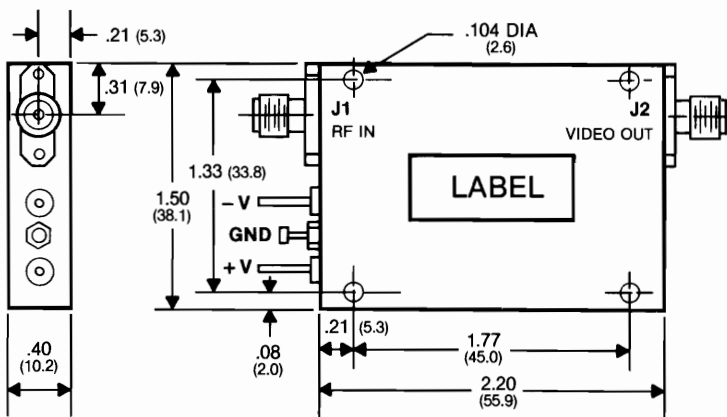
DESCRIPTION

The LVD-218 Series DLVA's offers standard 50 dB and extended 70 dB dynamic range over the full 2-18 GHz bandwidth with DC coupling. Units employ planar diode detectors and integrated video circuitry for high speed performance and outstanding reliability.

GUARANTEED SPECIFICATIONS

PARAMETER	LVD-218-50	LVD-218-70
• Frequency	2-18 GHz	2-18 GHz
• Flatness (- 20 dBm)	± 1.3 dB	± 2.0 dB
• VSWR	2:1, max	2:1, max
• TSS	- 42 dBm	- 70 dBm
• Logging Range	- 40 to + 10 dBm	- 70 to + 10 dBm
• Log Slope	50 mV/dB	50 mV/dB
• Log Liniarity	± 0.3 dB	± 0.5 dB
• Output Stability (- 54C to + 85C)	± 0.5 dB	± 1.0 dB
• Pulse Width Range	50 ns to CW	50 ns to CW
• Rise Time	15 ns, max	15 ns, max
• Recovery Time	100 ns, max	100 ns, max
• Video Load	50 ohms, min	50 ohms, min
• D.C. Power	± 12v @ 100 mA	± 12v @ 300 mA
• Other Special Features Available Upon Request.		

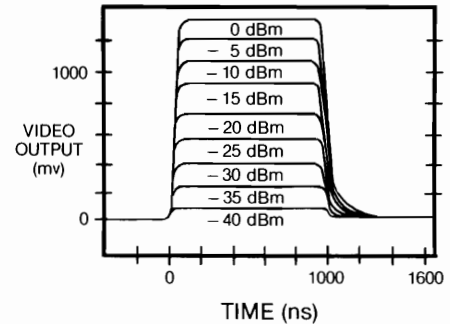
MECHANICAL DATA



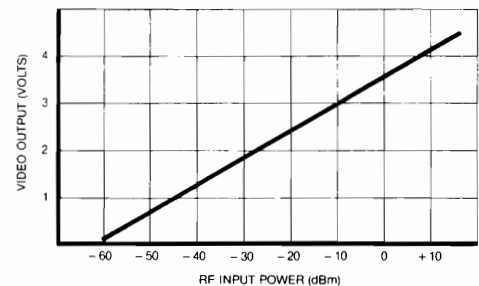
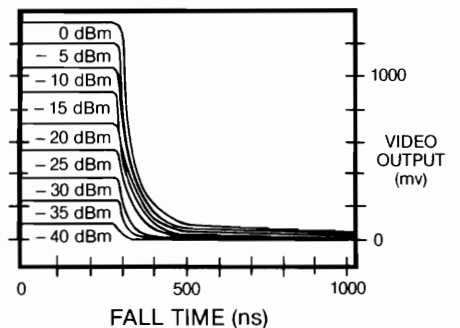
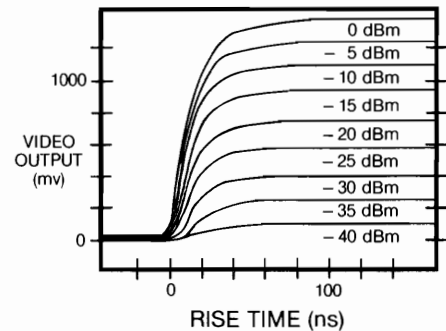
DIMENSIONS: INCHES (MILLIMETERS)

PERFORMANCE FEATURES

VIDEO RESPONSE OF DC-COUPLED 40 dB MONOLITHIC DLVA



RISE & FALL TIME RESPONSE OF DC-COUPLED 40 dB MONOLITHIC DLVA



TYPICAL TRANSFER CHARACTERISTICS OF LVD-218-70