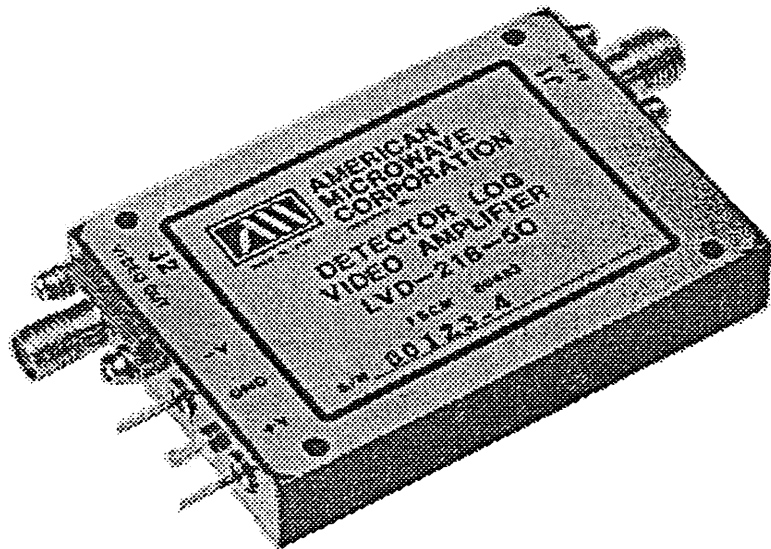


American Microwave Corporation

DLVA

DETECTOR LOG VIDEO AMPLIFIER 2-18 GHz, 45 DB DYNAMIC RANGE

MODEL: LVD-218-50



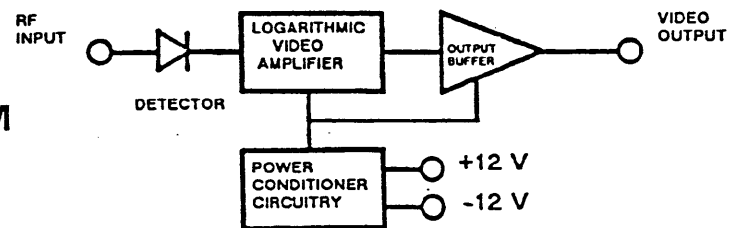
FEATURES

- DC Coupled
- Wide Bandwidths
- Fast Rise Times
- Short Recovery Times
- Small Size

DESCRIPTION

The LVD-218 -50 Series DLVA's offer 50 dB dynamic range over the full 2-18 GHz bandwidth with DC coupling. Units employ planar diode detectors and monolithic video circuitry for high speed performance and outstanding reliability. They are available with optional external or internal controlled CW nulling.

FUNCTIONAL BLOCK DIAGRAM



7311G GROVE ROAD, FREDERICK, MARYLAND 21701, •Tel: (301) 662-4700 •Fax: (301) 662-4938

GUARANTEED SPECIFICATIONS

PARAMETER SPECIFICATIONS

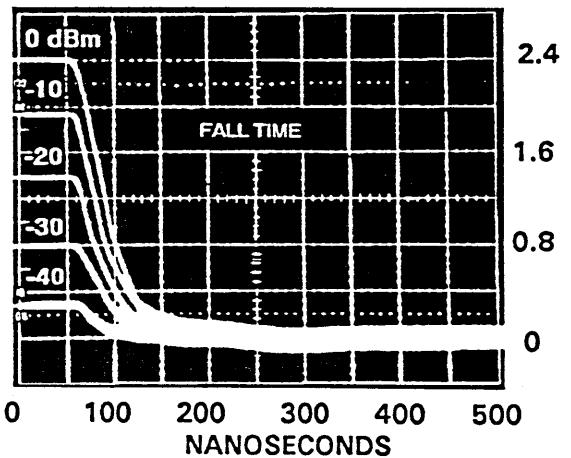
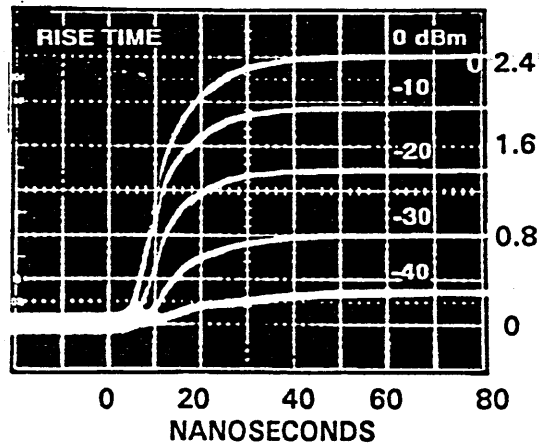
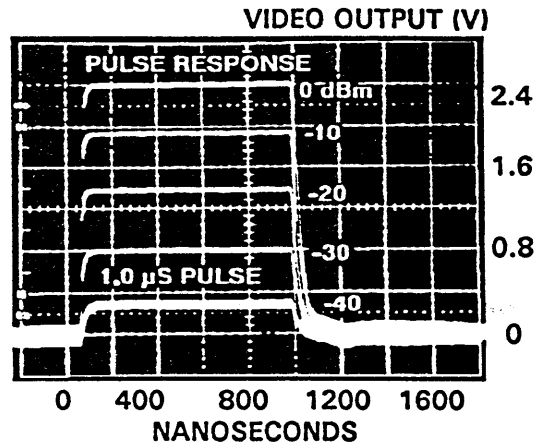
•Frequency	2-18 GHz
•Flatness (-20 dBm)	± 1.5 dB
•VSWR	3.0:1, Max
•TSS	-40 dBm, Max.
•Logging Range	-40 to +5 dBm
•Log Slope (Note 1)	50 mV/dB, ± 10%
•Log Linearity (-40 to 0 dBm)	± 1.0 dB, Max.
•Output Stability (-54°C to +85°C)	± 1.0 dB, Max.
•Pulse Width Range	50 ns to CW
•Rise Time	20 ns, Max.
•Recovery Time (from 0 dBm)	150 ns, Max
•Video Load	100 Ohms, Min.
•D.C. Power (Note 2)	± 12 V @80 mA
•Weight	1.5 oz.

Notes:

1. Other Log slopes available.
2. Other voltages from ± 9 V to ± 18 V available.
3. Internal or external CW nulling available.

TYPICAL PERFORMANCE

VIDEO RESPONSE



MECHANICAL DATA

