Planar Monolithics Industries, Inc.

STATE OF THE ART BROADBAND SUCCESSIVE & EXTENDED RANGE DETECTOR LOG VIDEO AMPLIFIERS
(SDLVA’s & ERDLVA’s)

- **SDLVA-100M18G-CW-70-MAH**
  - Frequency Range: 100 MHz to 18.0 GHz
  - Log Range: -65 to +5 dBm min.
  - Log Linearity: ±1.75 dB (-20°C to +28°C)
  - Log Slope: 10 mV/dB into a 50 Ω load ±1 mV max.
  - Flatness: ±2.0 dB max.
  - TSS: -68 dBm min., -70 dBm typ.
  - CW Immunity Range: TSS to -45 dBm (1 db Degradation)
  - Rise Time: 100 ns to 250 us
  - Recovery Time: 35 ns max.
  - Recovery Time: 350 ns max.
  - Size: 2.30” x 2.20” x 0.36”

- **SDLVA-2020-OPT112**
  - Frequency Range: 1.0 to 12.0 GHz
  - Log Range: -65 dBm to -35 dBm
  - Log Linearity: ±1.75 dB max.
  - Log Slope: 5.0 dB/dB, ±1.0 dB nominal
  - Flatness: ±2.0 dB typ., ±2.5 dB max.
  - TSS: -65 dBm max.
  - Rise Time: 20 ns max. (10% to 90%)
  - Recovery Time: 200 ns max.
  - Size: 3.0” x 3.5” x 0.50”

- **SDLVA-18G40G-65-CD-SFF**
  - Frequency Range: 18.0 to 40.0 GHz
  - Log Range: -65 dBm to +2 dBm
  - Log Linearity: ±2.0 dB @ 25°C
  - Log Slope: 5.0 dB/dB, ±1.0 dB nominal
  - Flatness: ±2.5 dB max. @ 25°C
  - TSS: -65 dBm @ 25°C
  - Pulse Range: 30 ns to CW
  - Rise Time: 11 ns max., 8 ns typ.
  - Recovery Time: 60 ns max., 40 ns typ.
  - Size: 2.37” x 1.80” x 0.42”

- **SDLVA-418-65-16MV-12DBM**
  - Frequency Range: 4.0 to 18.0 GHz
  - Log Range: -65 dBm to +10 dBm
  - Log Linearity: ±1.8 dB
  - Log Slope: 16.7±1.3 mV/dB
  - Flatness: ±3 dB max.
  - TSS: -64 dBm max.
  - Pulse Range: 25 ns to CW
  - Rise Time: 10 ns max.
  - Recovery Time: 30 ns max.
  - Signal to Video Delay: < 2 ns
  - Simultaneous Signal Suppression: 5 dB
  - Size: 4.24” x 0.994” x 0.38”

- **SDLVA-2D5G4D9G-60-50MV**
  - Frequency Range: 2.5 to 4.9 GHz
  - Log Range: -60 dBm to 0 dBm
  - Log Linearity: ±1.5 dB max.
  - Log Slope: 50.5 ±5% mV/dB
  - Flatness: ±4.0 dB @ -60 to -50 dBm
  - Input: <6.0 dB @ -50 to 0 dBm
  - TSS: -70 dBm min.
  - Pulse Range: 100 ns to CW
  - Rise Time: 20 ns (10% to 90%)
  - Fall Time: 50 ns (90% to 10%)
  - Size: 2.30” x 1.00” x 0.40”

**Ultra Broadband, CW Immune with Dual RF Outputs**

**Millimeter Wave**

**Thin Film Construction**

**Ultra-Highspeed**

**West Coast Operation:**
4921 Robert J. Mathews Pkwy, Suite 1
El Dorado Hills, CA 95762 USA
Tel: 916-542-1401 Fax: 916-265-2597
ISO9001:2008 REGISTERED
Email: sales@pmi-rf.com

**East Coast Operation:**
7311-F Grove Road
Frederick, MD 21704 USA
Tel: 301-662-5019 Fax: 301-662-1731
ISO9001:2008 REGISTERED
Website: www.pmi-rf.com

Hermetic Sealing, High Reliability to Mil-Std-883, Small Quantity Requirements accepted & we welcome Custom Designs too.