



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

May 21, 2014

0.25 to 6.0GHz SDLVA with -70 to 0dBm Logging Range PMI Model No. SDLVA-250M6G-CD-1



PMI model SDLVA-250M6G-CD-1 Successive Detection Log Video Amplifiers (SDLVA) offers 70dB Dynamic Range over the frequency range of 0.25 to 6.0GHz. This model offers an ultra-fast rise time of 10nsec maximum and a recovery time of less than 60nsec. The unit is temperature compensated such that log linearity over temperature remains less than +/-2.5dB over the full operating temperature range of -40 to +70C. This model is supplied in a compact housing measuring only 3.2" x 1.8" x 0.4". [Optional frequency ranges covering 100MHz to 26.5GHz are available.]

Frequency Range	0.25 to 6.0GHz
Frequency Flatness	±2.0 dB max.
Logging Range	-70dBm to 0dBm
Log Linearity	±2.5dB max.
Log Slope	25mV/dB typ. (±5%)
Pulse Range	30nsec to CW
Rise Time	10nsec max.
Recovery Time	60nsec max.
VSWR	2.0:1 max.
TSS	-73dB typ.
Input Power Handling	+17dBm CW max.
Power Plus	+15VDC @ 350mA nominal
Power Minus	-15VDC @ 180 mA nominal
Size	3.2 " x 1.8 " x 0.4"
Connectors	SMA (F)
Finish	Gold Plated
Size	3.2" x 1.8" x 0.4"

Temperature:	-40°C to +70 °C Operating -65 °C to +125 °C Non-Operating
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

PLANAR MONOLITHICS INDUSTRIES, INC.

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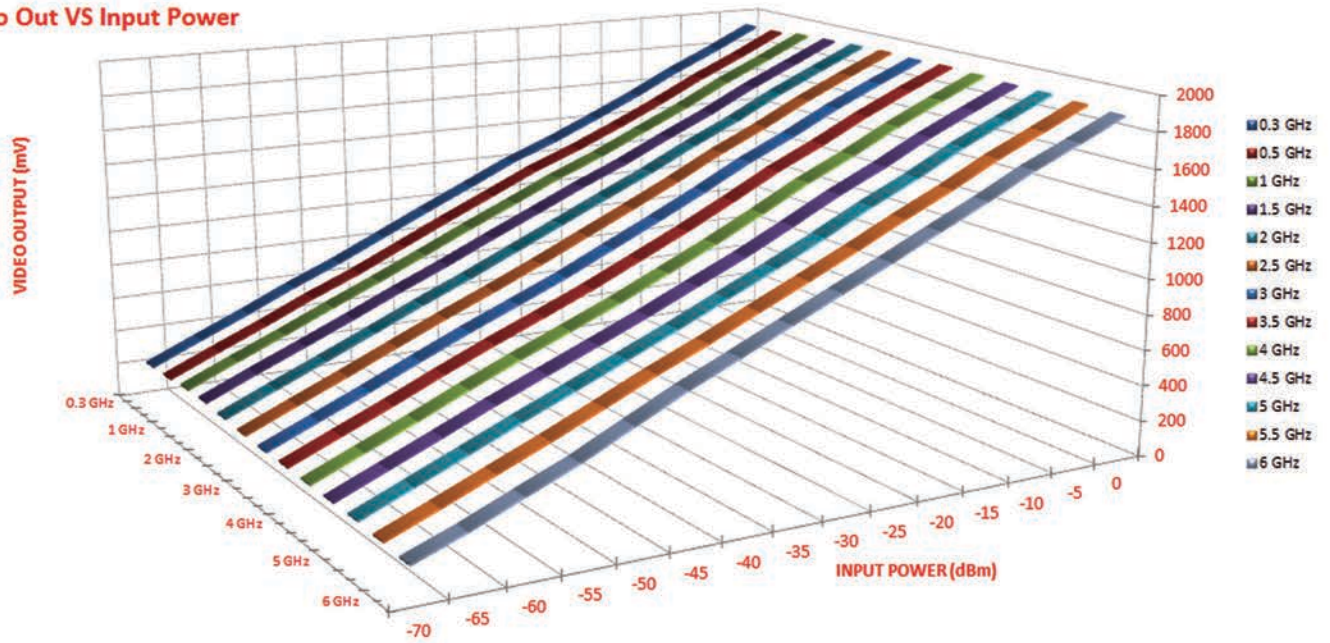
4921 Roberts J. Mathews Parkway
Suite 1 El Dorado Hills, CA 95762 USA

Tel: 916-542-1401 | Fax: 916-265-2597

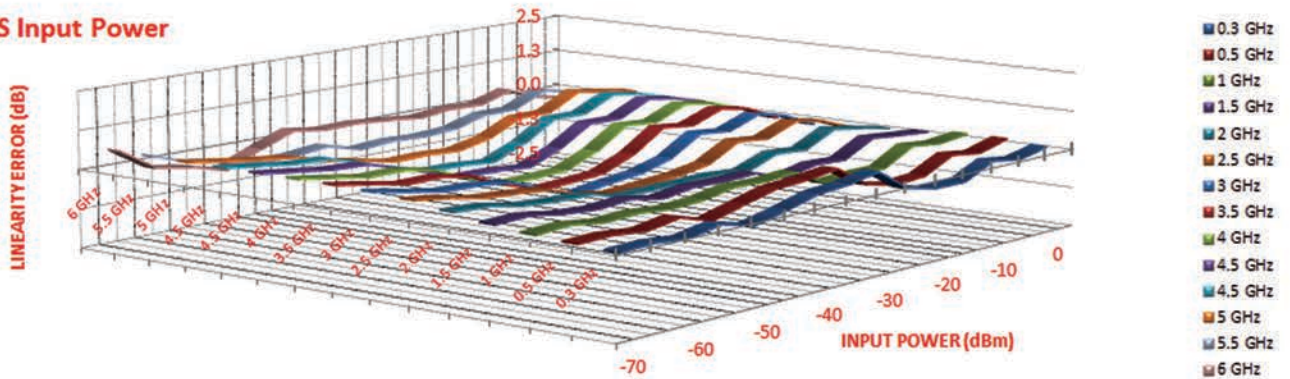
Email: sales@pmi-rf.com | www.pmi-rf.com

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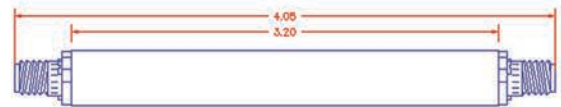
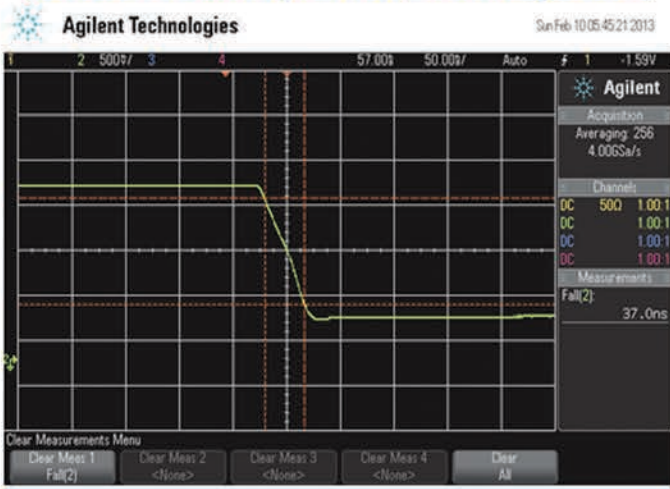
Video Out VS Input Power



Linearity Error VS Input Power



Fall & Recovery Time, 3GHz @ 25°C



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