



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

May 21, 2014

6.0 to 18.0GHz SDLVA with -70 to +5dBm Logging Range PMI Model No. SDLVA-6G18G-CD-1



PMI model SDLVA-6G18G-CD-1 Successive Detection Log Video Amplifiers (SDLVA) offers 75dB Dynamic Range over the frequency range of 6.0 to 18.0GHz. 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 +85C. 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	6.0GHz to 18.0GHz (100MHz to 26.5GHz available)
Frequency Flatness	±2.0 dB max. @ +25C
Logging Range	-70dBm to +5dBm
Log Linearity	±2.0dB Maximum, ±2.5dB Maximum (Over Temp)
Log Slope	25mV/dB Nominal (50 Ohm Load) 48mV/dB Nominal (No Load)
Pulse Range	30nsec to CW
Rise Time	10nsec max., 5nsec typical
Recovery Time	60nsec max., 40nsec typical
VSWR	2.0:1 typical
TSS	-70dB min.
Input Power Handling	+17dBm CW max.
Power Plus	+12 to +15 vdc @ 350mA typ.
Power Minus	-12 to -15 vdc @ 180 mA typ.
Size	3.2 " x 1.8 " x 0.4"

Temperature:	-40°C to +85 °C Operating -65 °C to +100 °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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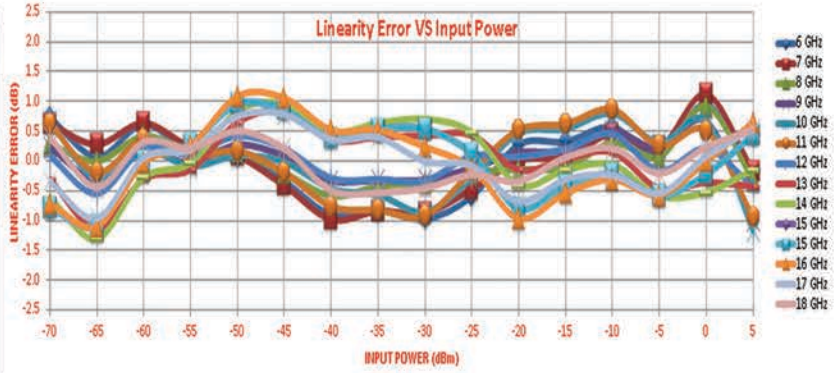
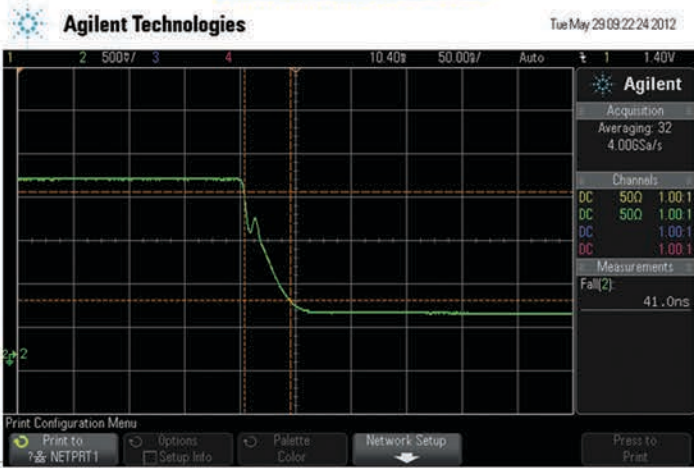
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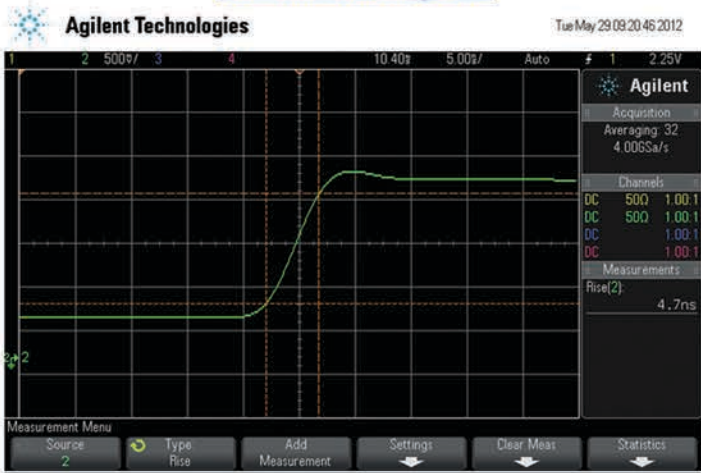
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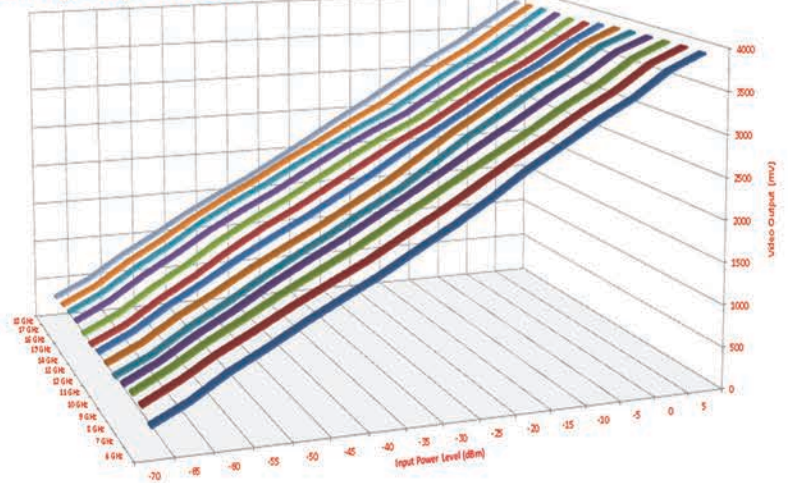
Fall Time, 18GHz @ 25°C



Rise Time, 18GHz @ 25°C



Video Output Vs. Input Power @ 25°C



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