



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

May 21, 2014

2.0 to 4.0GHz 45dB DLVA with Fixed 600nS Pulsed Output PMI Model No. DI VA-2G4G-45-70-CD-1

PMI Model No. DLVA-2G4G-45-70-CD-1 is a detector log video amplifier (DLVA) that operates between the 2.0 to 4.0GHz frequency range. It has a dynamic range of 45dB, a log slop of 70mV/dB and a nominal video bandwidth of 14MHz. Furthermore, the DLVA



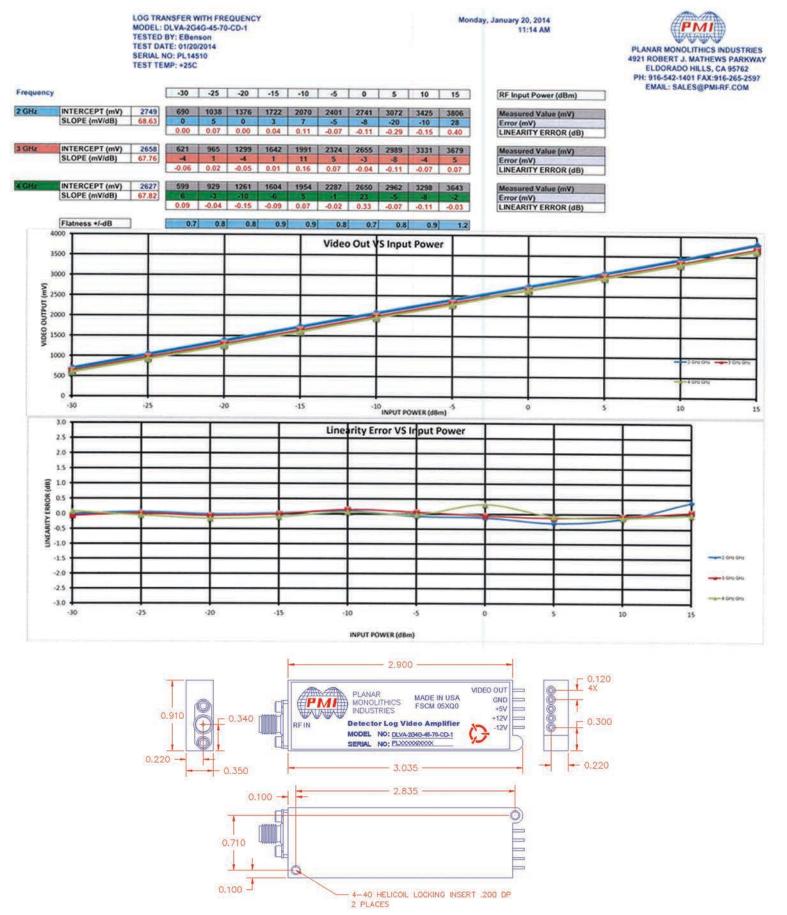
has features that can convert any incoming signal ranging from 50ns to CW to a pulsed output of 600ns. In addition, the DLVA will not trigger an output with input pulse widths of 40ns or less. This state of the art design utilizes cutting edge technology which provides stunning performance and reliability in a compact package making it an optimum solution for high speed channelized receiver applications.

Frequency Range	2.0 to 4.0GHz
Input VSWR (50 OHMS)	1.92:1 (-10dB max)
Input Power Handling	+20dBm max
Video Log Range	-30dBm to +15dBm
Video Log Linearity	±1.5dB @ 25°C
Video Log Slope	70mV/ dB ±5mVdB
Video Frequency Flatness	±1.5dB max
Pulse Width Range (50ns with little degradation in performance) (PW less than 40nS will not trigger an output)	80ns to CW
Video Output Impedance	100 OHMS
Video Rise Time	35nS max
Fall Time	200nS max
Recovery Time	1.0uS max
Settling Time	60nS max
Video Output Pulse Width	600nS ±200nS
Video Output Noise	60mV PTP
DC Power Supply	+12V @ 50mA +5V @ 80mA -12V @100mA
Size	3.035" x 0.91" x 0.35"

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