



Planar Monolithics Industries, Inc.

RF & Microwave Components and Modules to 40GHz

ISO9001:2008 Certified

0.1 to 3.0GHz CW Immune SDLVA PMI Model No. SDLVA-100M3G-CW-70-MAH

PMI Model No: SDLVA-100M3G-CW-70-MAH is a CW-Immune Successive Detection Log Video Amplifier operating in the 0.1 to 3.0GHz frequency band. It features an SPST on the RF output which allows for the RF to be blanked when the RF input signal is below the -64dBm threshold. In addition to RF blanking, a 3.3V TTL-compatible output is also provided for time-gating or sampling to assist in digital system integration.



Specifications:

Frequency Range	0.1 to 3.0GHz
Frequency Flatness	±2.0 dB max.
TSS	-68dBm min., -70dBm typ
Limited Output Power	6.5dBm ±3.0dB max.
Linear Output Gain	38db ±3.0dB max.
Linear Output Psat	6dBm ±3.0dB max.
VSWR	2.0:1 max
V0 (Video Comparator Signal Amplitude)	3.3V typ
Video Comparator Delay	50ns typ
Video Comparator Threshold Level	-64dBm ±3.0dB max.
V1 (Log Video Signal Amplitude)	1 Volt max
Log Slope	10mV/dB into a 50 ohm Load (±1mV) max
Log Range	-65 to +5dBm min
Log Linearity	±1.50dB (-40°C to +85 °C) max
Pulse Range	100ns to CW
Rise Time	35ns max
Settling Time to ±1dB	50ns typ
Recovery Time	200ns max (150ns typ)
SPST Isolation	70dB typ
SPST Switch Speed	20ns typ
Power Supply	±12 VDC to ±15 VDC
Dimensions	2.30" x 2.20" x 0.36"
Connectors	SMA Female
Finish	Gold Plated

Environmental Ratings:

Temperature:	-40°C to +85 °C Operating -54 °C to +100 °C Non-Operating
Humidity:	MIL-STD-202G, Method 103B Cond. B
Shock:	MIL-STD-202G, Method 213B Cond. B
Vibration:	MIL-STD-202G, Method 204D Cond. B
Altitude:	MIL-STD-202G, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202G, Method 107D Cond. A

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