

**Description:**

MODEL NUMBER SDLVA-1G20G-55-12-SFF-100MV IS A MINIATURE SDLVA (SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER) SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED IN CONNECTORIZED OR STRIP LINE APPLICATIONS. IT OPERATES FROM 1.0 TO 20.0 GHz FREQUENCY RANGE, GREATER THAN 55 dB DYNAMIC RANGE, AND ULTRA HIGH SPEED. IT'S SIZE AND STUNNING PERFORMANCE MAKES IT AN ATTRACTIVE SOLUTION FOR HIGH SPEED, WIDE BAND AND HIGH RELIABILITY CHANNELIZED RECEIVER APPLICATIONS.

**Specifications:**

- Frequency Range: 1 to 20 GHz
- Frequency Flatness: ± 2.0 dB Typ
- Log Linearity: ± 1.5 dB (Pin = -50 to 0 dBm) @ +25C Typ
- Log Linearity over Temp: ± 2.0 dB (Pin = -50 to 0 dBm) @ -55°C to +85°C Typ
- Logging Range: -55 to +5 dBm
- Input VSWR: 2.8:1 Typ
- Log Video Output Voltage: 0.1 to 2.5V Typ
- Log Video Output Slope: 100 mV / dB Typ
- Log Video Output Rise Time: 5 ns (Pin = -20 dBm @ 10% to 90%)
- Log Video Output Fall Time: 20 ns (Pin = -20 dBm @ 90% to 10%)
- Log Video Recovery Time: 28 ns (Pin = -50 to 0 dBm)
- Log Video Propagation Delay: 15 ns Typ
- Tangential Signal Sensitivity: -58 dBm TSS Typ.
- Video Output Load: 50 Ohm Load
- Operating Voltage: +12 to 15 VDC
- Operating Current: 200 mA Typ.
- Finish: Gold Plated

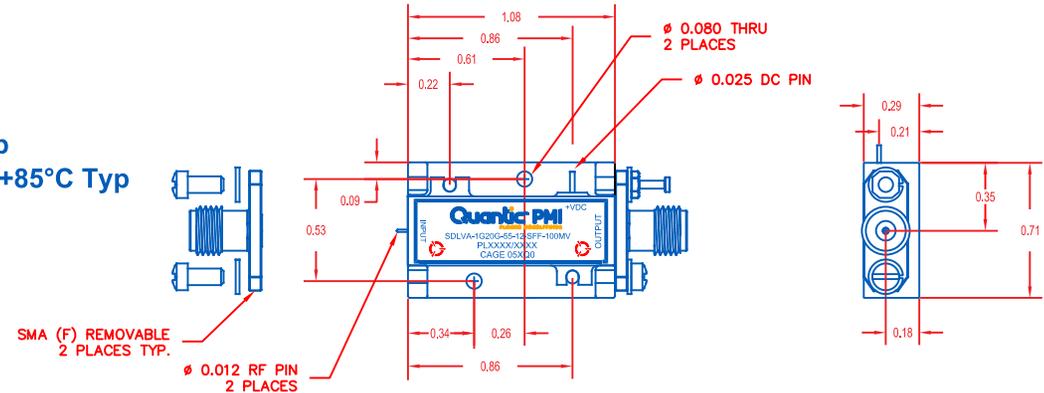
**Environmental Ratings:**

- Temperature: -55 to +85 Deg. C (Operating)  
-65 to +125 Deg. C (Storage)
- Humidity: MIL-STD-202F, METHOD 103B COND B.
- Shock: MIL-STD-202F, METHOD 213B COND B.
- Altitude: MIL-STD-202F, METHOD 105C COND B.
- Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

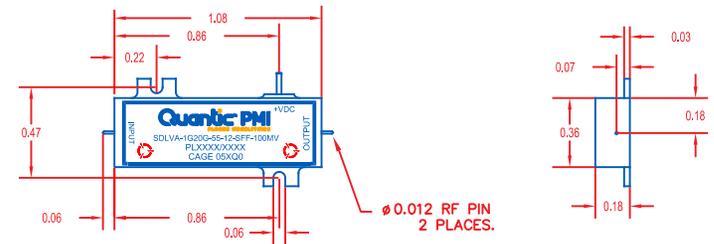
Note: The above specifications are subject to change or revision.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/2/2024	

**PE2 HOUSING WITH CARRIER**



**PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)**



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN <i>S. AJAR</i>		7/2/2024	LABEL/OUTLINE SDLVA-1G20G-55-12-SFF-100MV		
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27048900
ISSUED			SCALE N:S	SHEET 1 OF 1	
				REV. A1	