

Description:

Model Number SDLVA-0R5G20G-55DB-SFF-50OHMS-50MV 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 0.5 TO 20.0 GHZ FREQUENCY RANGE, GREATER THAN 55DB 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: 0.5 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: 50 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: +8 to 15 VDC
- Operating Current: 130 mA Typ.
- Finish: Gold Plated

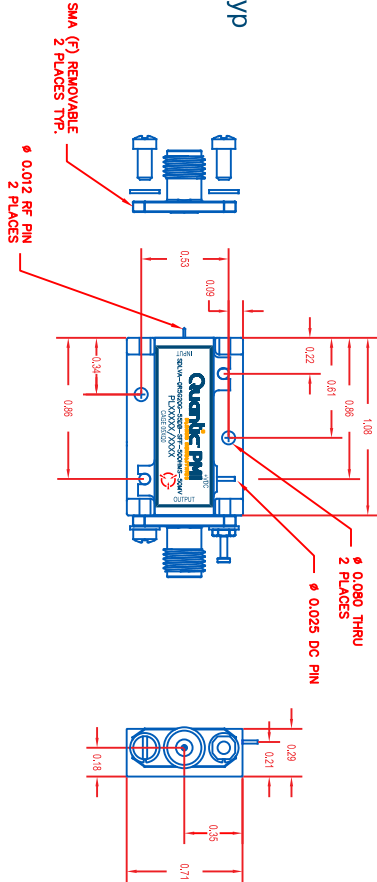
Environmental Ratings:

- Temperature: -55 to +85 Deg. C (Operating)
- 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

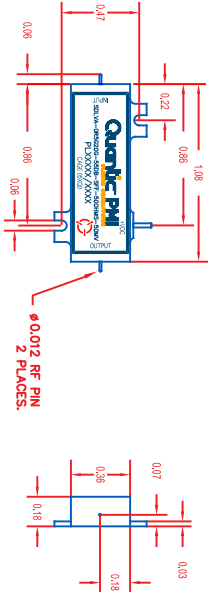
Note: The above specifications are subject to change or revision.

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A1	ORIGINAL RELEASE	12/19/24

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE		TITLE	
DRAWN	R. JRR	12/19/24		SDLV A-0R5G20G-55DB-SFF-50OHMS-50MV	OUTLINE
REDRAWN				A 05XQ0	SIZE FSCM NO. DWG NO. 27250660
ISSUED				SCALE N:S	SHEET 1 OF 1