

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
Survival Input Power:	+12 dBm CW Max
Operating Voltage:	+12 to 15 VDC
Operating Current:	200 mA Typ.
Finish:	Gold Plated

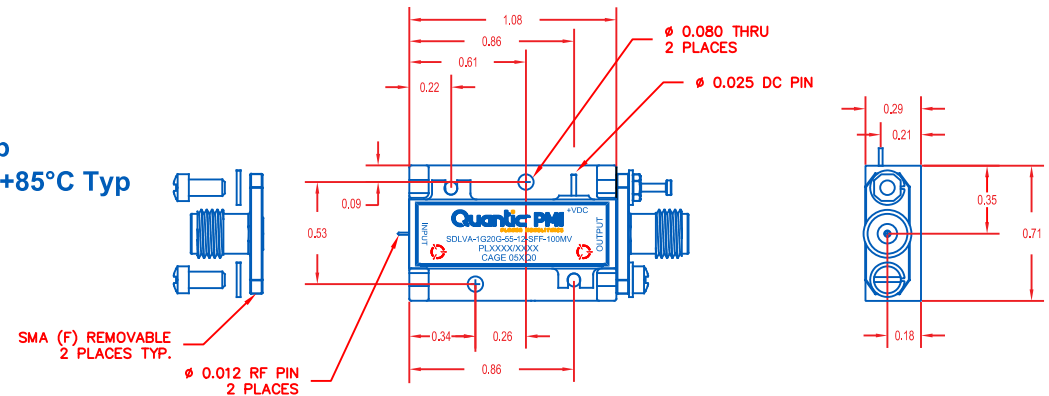
Environmental Ratings:

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

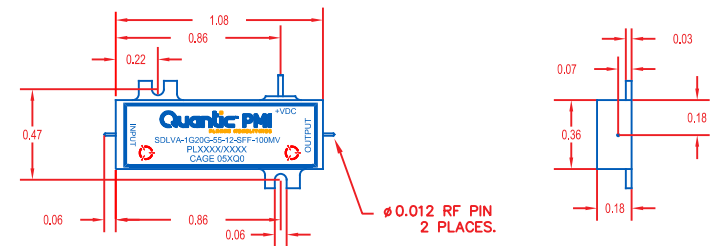
Note: The above specifications are subject to change or revision.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/2/2024	
	A2	ECN # 26-0175	8/19/26	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

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PLANAR MONOLITHICS

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