

Description:

Model Number SDLVA-1G20G-55-12-SFF-70MV 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 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: 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: 70 mV / dB Typ
 Log Video Output Rise Time: 5 nS Typ (Pin = -20 dBm @ 10% to 90%)
 Log Video Output Fall Time: 20 nS Typ (Pin = -20 dBm @ 90% to 10%)
 Log Video Recovery Time: 28 nS Typ (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:

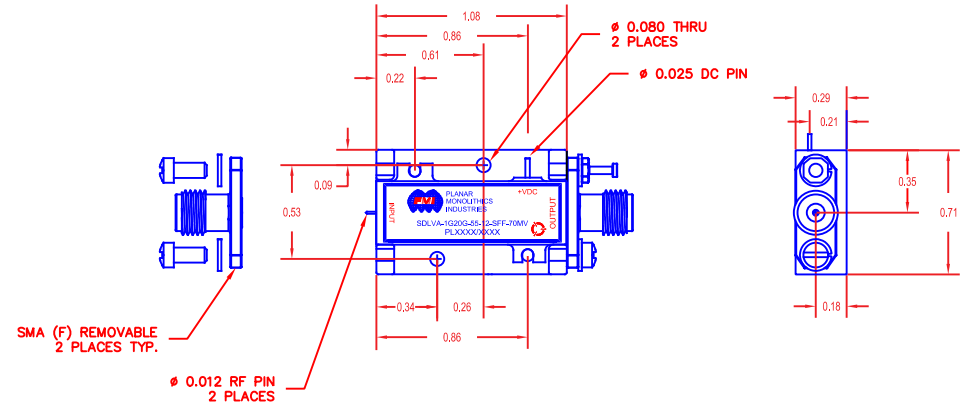
Temperature: -55 to +85 Deg. C (Operating)
 -65 to +125 Deg. C (Storage)
 Humidity: MIL-STD-202F, METHOD 103B COND B.
 Shock: MIL-STD-202F, METHOD 213B COND B.
 Altitude: MIL-STD-202F, METHOD 105C COND B.
 Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

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

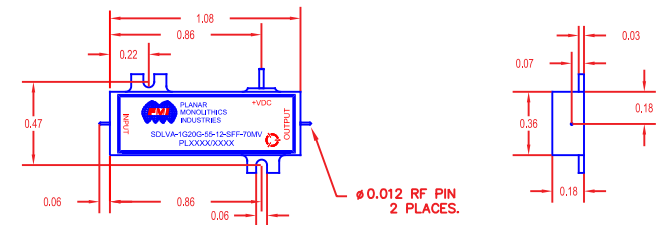
ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ± 0.020
 X.XXX ± 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	08/25/25	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



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APPROVALS		DATE	TITLE		
AG		08/25/25	PRODUCT FEATURE SDLVA-1G20G-55-12-SFF-70MV		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	PRELIMINARY
			SCALE	N: S	SHEET 1 OF 1