

Description:

Model Number SDLVA-1G20G-55-12-SFF (P/N: 27337600) 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:	50 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:

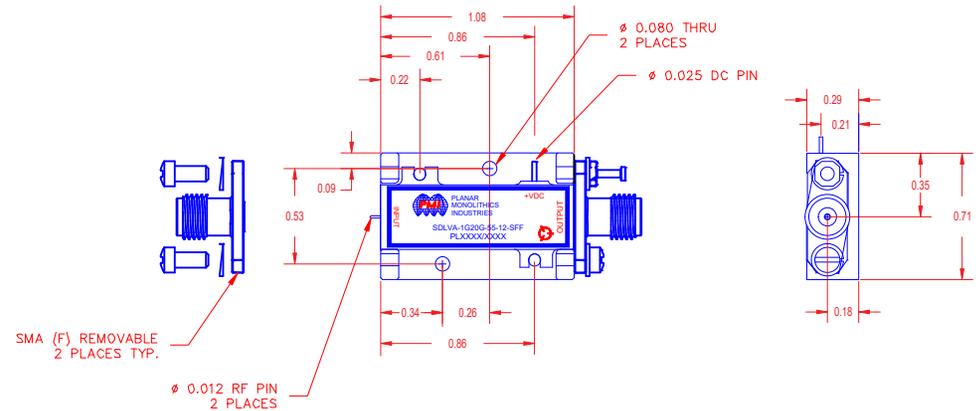
Temperature:	-55 to +85 Deg. C (Operating) -65 to +125 Deg. C (Storage)
Humidity:	MIL-STD-202F, METHOD 103B COND B.
Shock:	MIL-STD-202F, METHOD 213B COND B.
Altitude:	MIL-STD-202F, METHOD 105C COND B.
Temperature Cycle:	MIL-STD-202F, METHOD 107D COND A

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

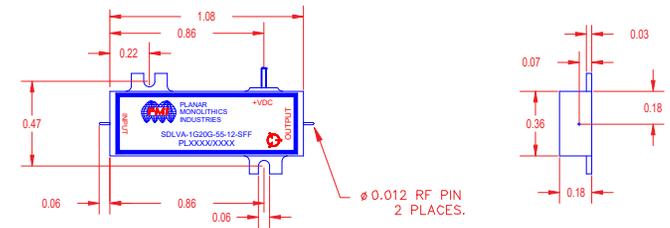
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/11/19	
	A2	ADDING FINISH TO SPECS	01/11/24	
	A3	ECN # 25-0184	06/18/25	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



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APPROVALS		DATE	TITLE			REV.
DRAWN Edd		10/11/19	PRODUCT FEATURE SDLVA-1G20G-55-12-SFF			A3
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27037601	
ISSUED			SCALE N: S		SHEET 1 OF 1	