

### Description:

Part Number 27338060 (Model Number SDLVA-100M20G-55-12-SFF) 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 100 Mhz TO 20.0 GHz FREQUENCY RANGE, 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:

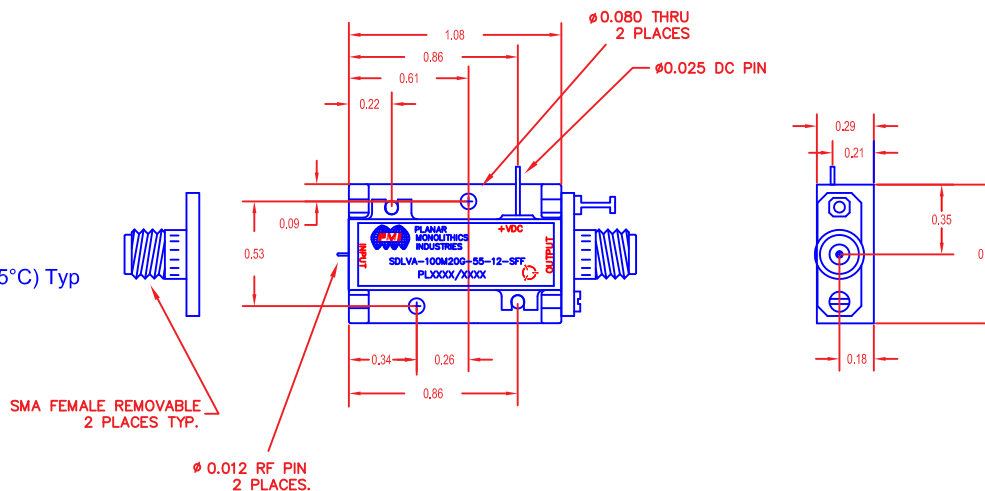
Frequency Range:	100 Mhz to 20 GHz
Frequency Flatness:	± 2.0 dB Typical
Log Linearity:	± 1.0 dB (Pin = -45 to 0 dBm) @ +25°C Typ
Log Linearity over Temp:	± 1.5 dB (Pin = -45 to 0 dBm @ -55°C to +85°C) Typ
Logging Range:	-50 to +5 dBm
Input VSWR:	3.0:1 Typ
Log Video Output Voltage:	0.9 to 1.5V Typ
Log Video Output Slope:	15 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 = -20 to 0 dBm)
Log Video Propagation Delay:	10 nS Typ
Tangential Signal Sensitivity:	- 55 dBm Typ.
Video Output Load:	1K Minimum
Operating Voltage:	+12 to 15VDC
Operating Current:	100 mA Typ.

### Environmental Ratings:

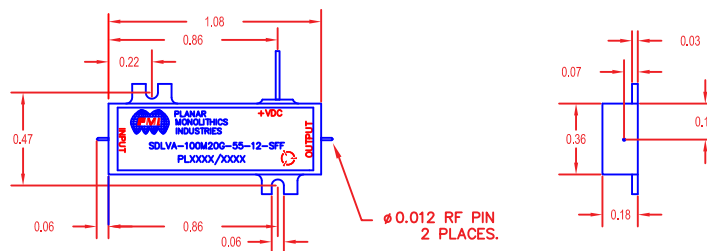
Temperature:	-55 to +85 Deg. C (Operating) -65 to +125 Deg. C (Storage)
Humidity:	MIL-STD-202F, METHOD 103B COND B.
Shock:	MIL-STD-202F, METHOD 213B COND B.
Altitude:	MIL-STD-202F, METHOD 105C COND B.
Temperature Cycle:	MIL-STD-202F, METHOD 107D COND A

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

### PE2 HOUSING WITH CARRIER



### PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



### PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
FRACTIONS DECIMALS ANGLES  
± .XX ± 0.010 ±  
.XXX ± 0.005

PART NO.		7311-F GROVE ROAD FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
DRW: E.BENSON	01/28/20	OUTLINE DRAWING	
CHECKED		SDLVA-100M20G-55-12-SFF	
ISSUED		REV. CODE	REV. NO.
		B 05XQ0	27038061
DO NOT SCALE DRAWING		SCALE N/A	SHEET 1 OF 1