ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/5/2026	
	B1	ECN # 26-0229	10/22/2026	

DESCRIPTION:

PMI MODEL NUMBER SDLVA-2G18G-55-12-SFF-70MV IS A 2 TO 18 GHz, MINIATURE SDLVA (SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER) SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED IN CONNECTORIZED OR STRIP LINE APPLICATIONS. THIS PRODUCT'S SIZE AND PERFORMANCE MAKES IT AN ATTRACTIVE SOLUTION FOR HIGH SPEED, WIDE BAND, AND HIGH RELIABILITY CHANNELIZED RECEIVER APPLICATIONS.

SPECIFICATIONS: @ 25° C

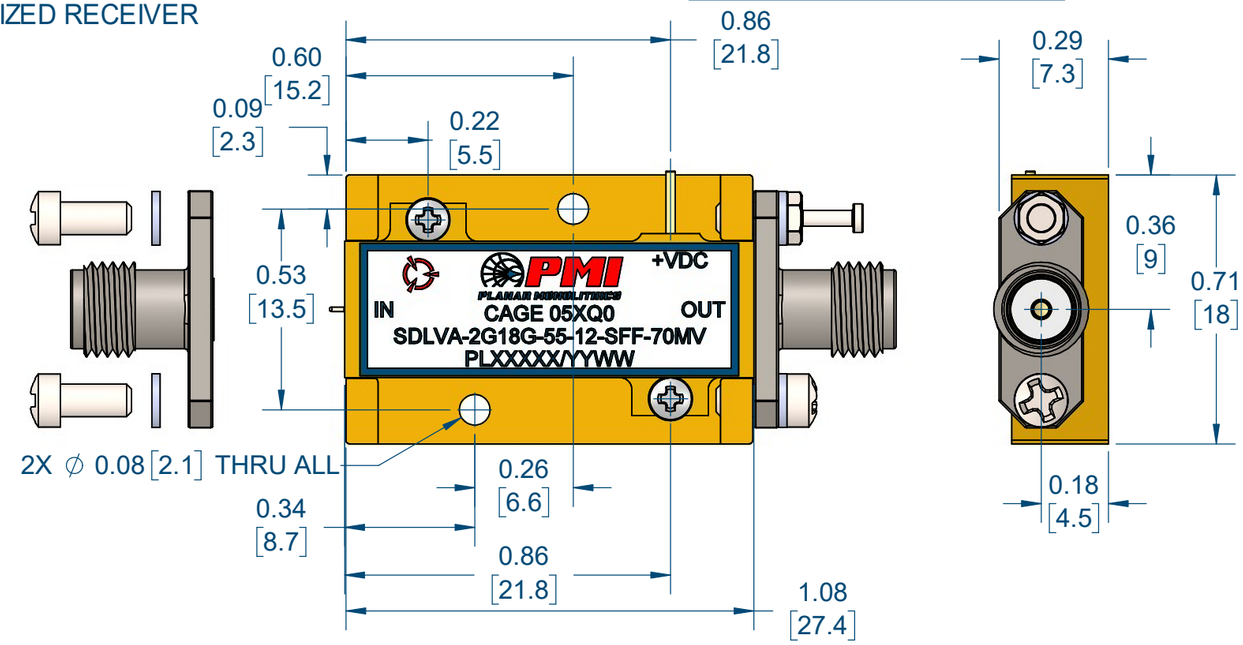
- FREQUENCY RANGE: ..... 2 TO 18 GHz
- FREQUENCY FLATNESS: ..... ± 2.0 dB MAX
- LOG LINEARITY: ..... ± 2.50 dB MAX (-40 TO -10 dBm INPUT)
  ± 3.0 dB MAX (-50 TO 0 dBm INPUT)
  ± 5.0 dB TYP (-55 TO +5 dBm INPUT)
- LOGGING RANGE: ..... -55 TO +5 dBm
- INPUT VSWR: ..... 2.8:1 TYP
- LOG VIDEO OUTPUT VOLTAGE: ..... 0 TO 5V TYP
- LOG VIDEO OUTPUT SLOPE: ..... 70 ±5mV/dB MAX (-50 TO 0 dBm INPUT)
- LOG VIDEO OUTPUT RISE TIME: ..... 12 ns MAX (-40 TO -5 dBm INPUT)
  15 ns MAX (-55 TO +5 dBm INPUT)
- LOG VIDEO OUTPUT FALL TIME: ..... 20 ns TYP (P_{IN} = -20 dBm)
- LOG VIDEO RECOVERY TIME: ..... 28 ns TYP (P_{IN} = -50 TO 0 dBm)
- LOG VIDEO PROPAGATION DELAY: ..... 15 ns TYP
- TANGENTIAL SIGNAL SENSITIVITY: ..... -58 dBm TYP
- VIDEO OUTPUT LOAD: ..... 50 OHM LOAD
- OPERATING VOLTAGE: ..... +8 TO 15 VDC
- OPERATING CURRENT: ..... 250 mA MAX
- CONNECTORS: ..... SMA FEMALE
- FINISH: ..... GOLD PLATED

ENVIRONMENTAL RATINGS:

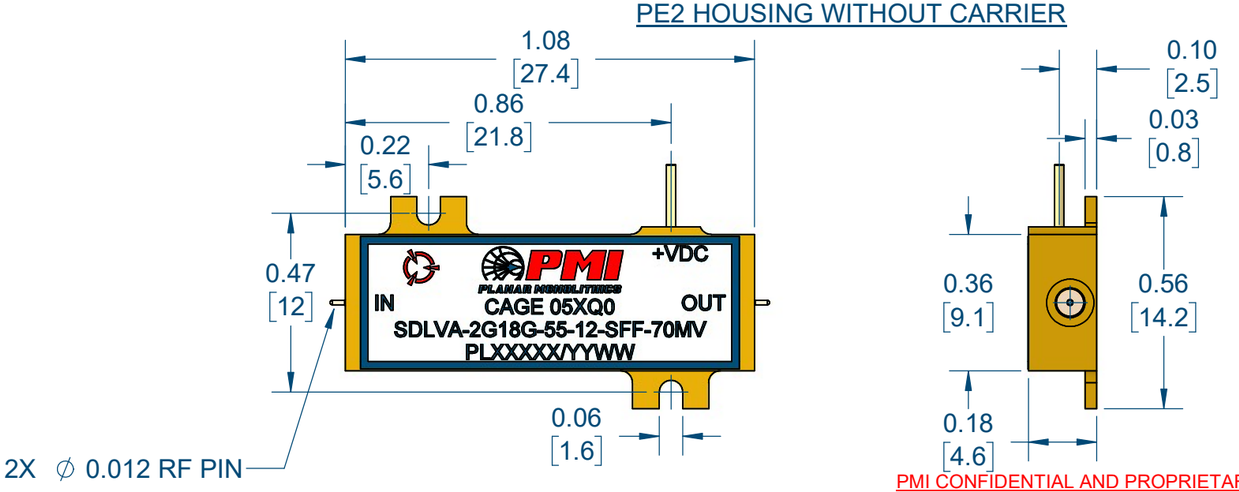
- TEMPERATURE: ..... -55°C TO +85°C (OPERATING)
  -65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202, METHOD 103 COND B.
- SHOCK: ..... MIL-STD-202, METHOD 213 COND B.
- ALTITUDE: ..... MIL-STD-202, METHOD 105 COND B.
- TEMPERATRE CYCLE: ..... MIL-STD-202, METHOD 107 COND A.

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN E. CASTILLO	8/5/2026
REDRAWN	
ISSUED	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± DECIMALS .XX ± 0.02 .XXX ± 0.01 ANGLES ±

PMI PLANAR MONOLITHICS
7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA
TEL: (301) 662-5019, FAX: (301) 662-1731
WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM
ISO 9001 CERTIFIED

TITLE			
OUTLINE SDLVA-2G18G-55-12-SFF-70MV			
SIZE B	FSCM NO. 05XQ0	DWG NO. 27055980	REV. B1
SCALE 5:2		SHEET 1 OF 1	