

DESCRIPTION:

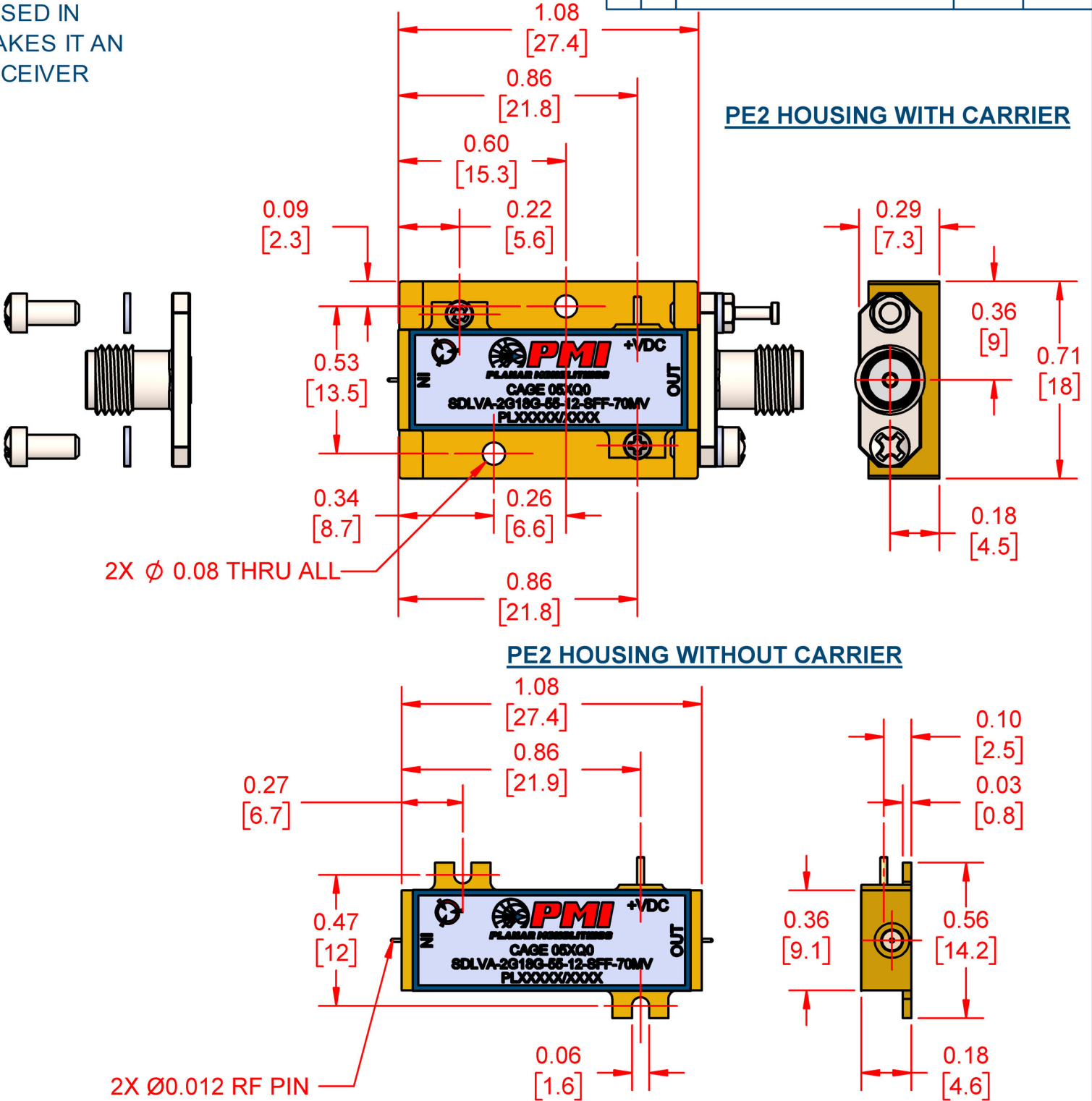
PMI MODEL NUMBER SDLVA-2G18G-55-12-SFF-70MV IS A 2 TO 18 GHz, MINIATURE SDLVA (SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER) SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED IN CONNECTORIZED OR STRIP LINE APPLICATIONS. THIS PRODUCT'S SIZE AND PERFORMANCE MAKES IT AN ATTRACTIVE SOLUTION FOR HIGH SPEED, 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: ± 1.50 dB MAX (-40 TO -10 dBm INPUT)
± 2.0 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 ±3mV/dB MAX (-50 TO 0 dBm INPUT)
- LOG VIDEO OUTPUT RISE TIME: 6 ns MAX (-30 TO -10 dBm INPUT)
10 ns MAX (-40 TO -5 dBm INPUT)
15 ns MAX (-55 TO +5 dBm INPUT)
- 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: 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.



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.010 ± XXX ± 0.005		PART NO.		PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 862-5019 FAX: (301) 862-7131 WEB: WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED			
MATERIAL: VARIOUS		APPROVALS DRAWN AMS REDRAWN ISSUED		DATE 7/13/2026		TITLE SDLVA-2G18G-55-12-SFF-70MV	
NEXT ASSY	USED ON	FINISH: VARIOUS	SIZE B		FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. 1
APPLICATION				SCALE 2:1		SHEET 1 OF 1	