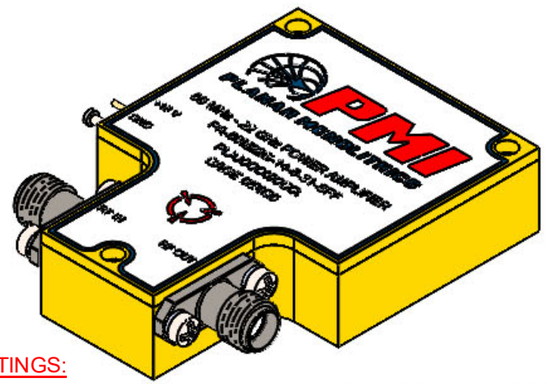
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/8/2026	

DESCRIPTION:

PMI MODEL NUMBER PA-50M22G-14-5-31-SFF IS A 50 MHz TO 22 GHz POWER AMPLIFIER. THE MODEL PROVIDES A TYPICAL GAIN OF 14 dB WITH EXCELLENT FLATNESS. IT HAS A TYPICAL P1dB AT 31 dBm AND PSat AT 33 dBm. ITS PACKAGE SIZE IS 2.0" x 1.5" x 0.45" WITH SMA FEMALE CONNECTORS.

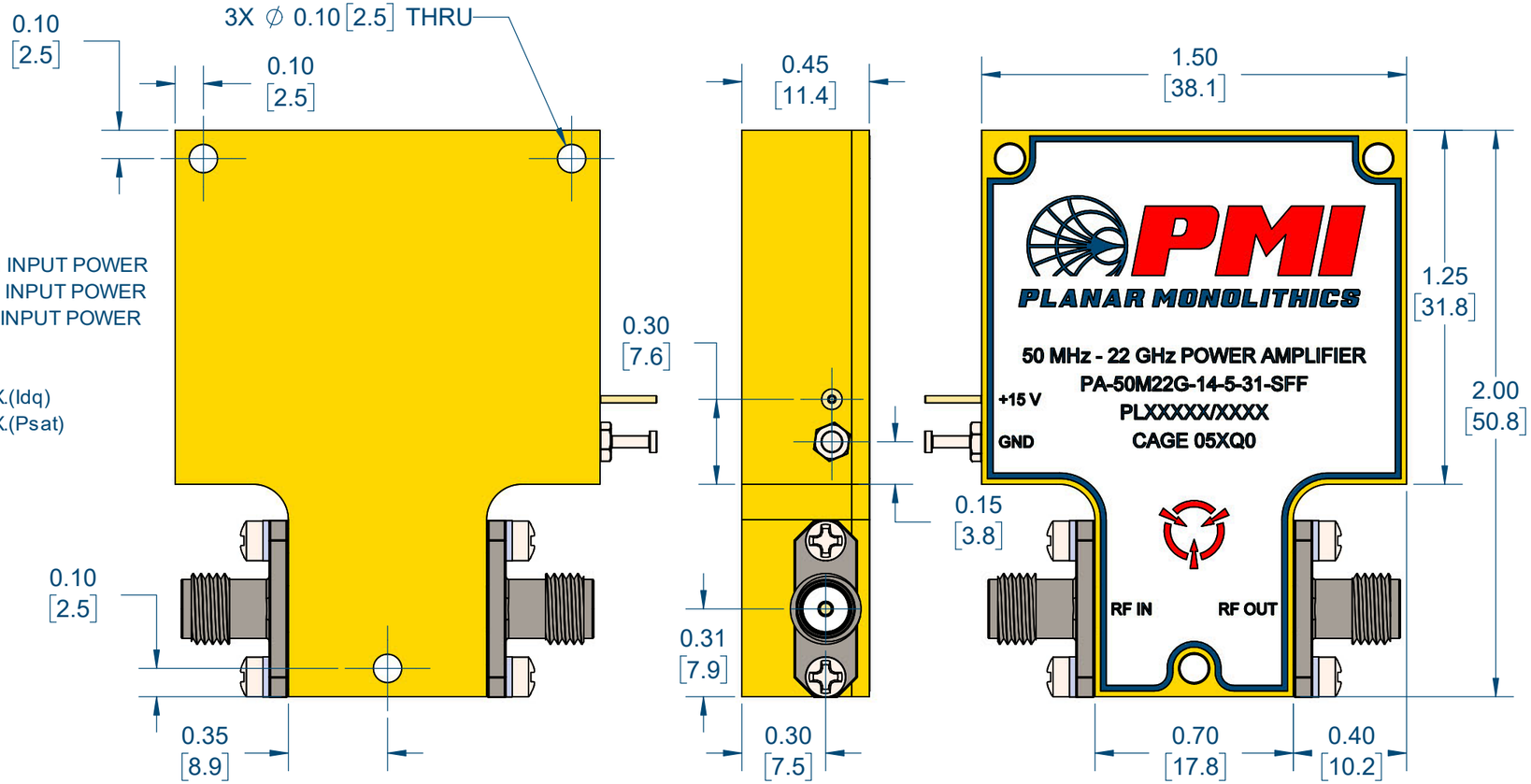
SPECIFICATIONS:

- FREQUENCY RANGE:..... 50 MHz TO 22 GHz
- GAIN:..... 14 dB TYP.
  10 dB MIN.
- GAIN FLATNESS:..... ± 2.5 dB MAX.
- NF:..... 5 dB TYP
  8.5 dB MAX. (≥1GHz)
- INPUT/OUTPUT VSWR:..... 2.0:1 MAX.
- OP1dB:..... 31 dBm TYP.
  23 dBm MIN.
- PSat:..... 33 dBm TYP.
  26 dBm MIN.
- HARMONICS:..... -40 dBc MAX.@-10dBm INPUT POWER
  -26 dBc MAX.@3.5dBm INPUT POWER
  -10 dBc MAX.@17dBm INPUT POWER
- OIP3:..... 26 dBm MIN.
- MAX RF INPUT POWER:..... +24 dBm CW MAX.
- DC VOLTAGE SUPPLY:..... +15 VDC @600mA MAX.(Idq)
  @725mA MAX.(Psat)
- CONNECTORS:..... SMA FEMALE
- WEIGHT:..... 1.0 oz. MAX.
- SIZE:..... 2.00" x 1.50" x 0.45"
- 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
- VIBRATION:..... MIL-STD-202, METHOD 204 COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107 COND. A



NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS	DATE
DRAWN Anton L.	4/8/2026
REDRAWN	
ISSUED	

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
PA-50M22G-14-5-31-SFF

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27052720	A1

SCALE 2:1 SHEET 1 OF 1