

DESCRIPTION:

PMI MODEL NUMBER: PEC-14-2G18G-4-27-15-SFF IS A 2.0 TO 8.0 GHz MEDIUM POWER, LOW NOISE AMPLIFIER OFFERING 13 dB GAIN AND A OP1dB OF +27dBm WITH A LOW NOISE FIGURE OF 4 dB. THIS AMPLIFIER IS SUPPLIED IN A HOUSING MEASURING 1.0" X 0.63" X 0.25" WITH SMA MALE/FEMALE CONNECTORS.

SPECIFICATIONS:

FREQUENCY: 2.0 TO 8.0 GHz
 GAIN: 13 dB ±1.5 dB MAX
 GAIN FLATNESS: ±0.75 dB MAX
 NOISE FIGURE: 5.0 dB TYPICAL, 6.0 dB MAX. (2 TO 3 GHz)
 4.5 dB TYPICAL, 5.0 dB MAX. (3 TO 5 GHz)
 3.5 dB TYPICAL, 4.5 dB MAX. (5 TO 8 GHz)
 OP1dB: +26dBm MIN., +27.5dBm TYPICAL
 VSWR INPUT/OUTPUT: 2.0:1 MAX.
 IMPEDANCE: 50 OHMS
 INPUT POWER: +27dBm CW MAX.
 DC VOLTAGE SUPPLY: +11.3V FIXED*
 DC CURRENT DRAW: Iq = 360 mA TYP
 CONNECTORS IN/OUT: SMA MALE (IN) FEMALE (OUT) CONNECTORS
 FINISH: GOLD PLATED
 *NO INTERNAL VOLTAGE REGULATION OR REVERSE PROTECTION

FEATURES:

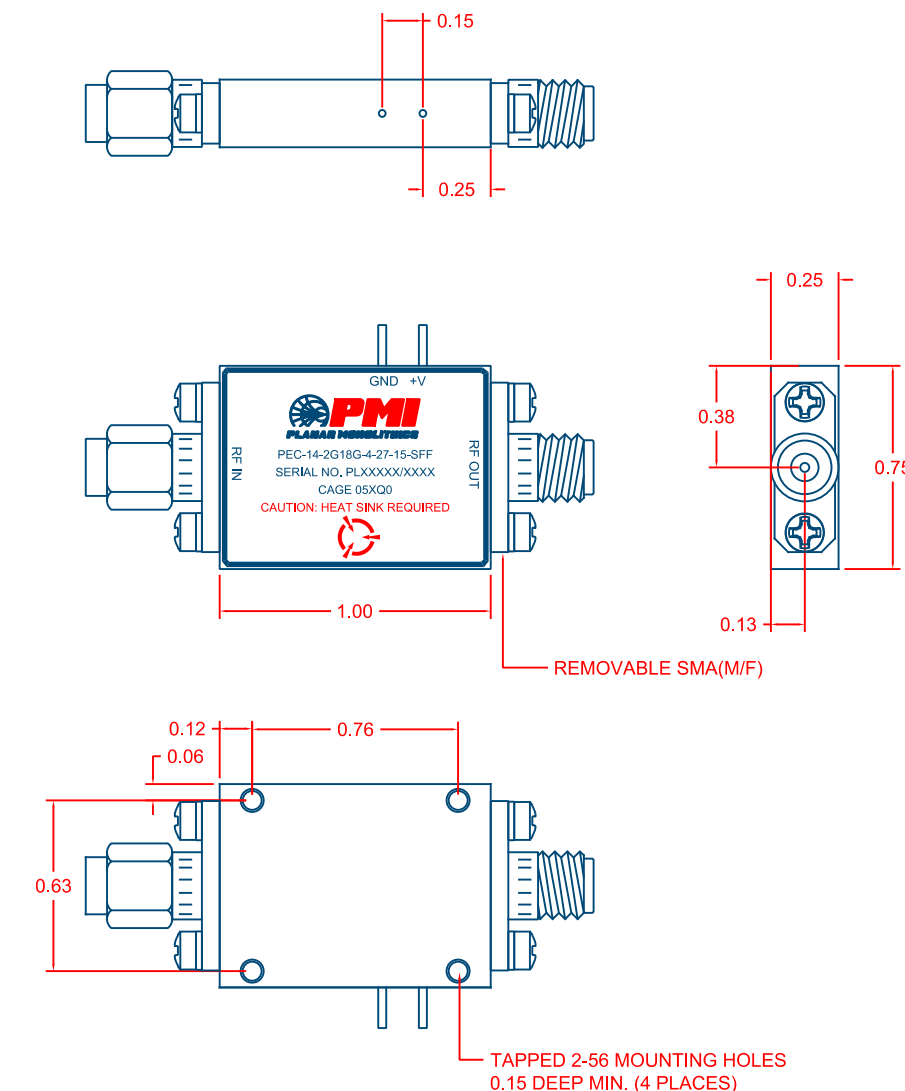
UNCONDITIONAL STABILITY

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. C
 VIBRATION: MIL-STD-202F, METHOD 204D 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
 NOTE: SPECIFICATIONS ARE VALID AT +25C.

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/28/23	
	A2	ECN # 26-0044	3/6/26	



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

PMI CONFIDENTIAL AND PROPRIETARY

7309-A GROVE ROAD
 FREDERICK, MARYLAND 21704 USA
 TEL: (301)-662-5019, FAX: (301)-662-1731
 WEB: www.quantipmi.com
 EMAIL: sales@quantipmi.com
 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>J. ESPANO</i>		3/28/23	OUTLINE PEC-14-2G18G-4-27-15-SFF		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27046180
ISSUED					REV. A2
SCALE N: S				SHEET 1 OF 1	