

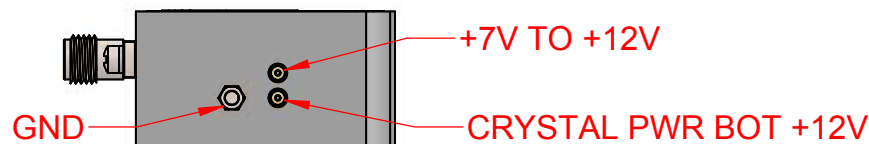
**DESCRIPTION:**

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PREF-10M-20DBM IS A 10MHz REFERENCE SOURCE WITH 5 OUTPUTS. THE POWER REF OUT HAS A +20 dBm OUTPUT WHILE THE 4 REF OUTPUTS HAVE A NOMINAL 0 dBm OUTPUT. THIS UNIT IS DESIGNED TO PROVIDE A MULTI-OUTPUT REFERENCE SOURCE IN A SYSTEM REQUIRING MULTIPLE 10MHz REFERENCE SOURCES AT THE SAME TIME, ALL HAVING THE SAME STABILITY AND PHASE NOISE.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/22/2019	

**SPECIFICATIONS:**

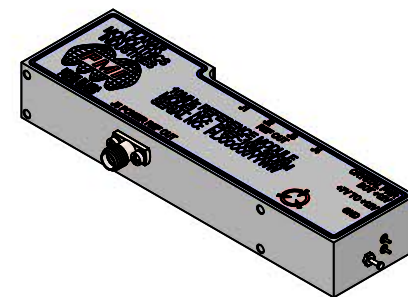
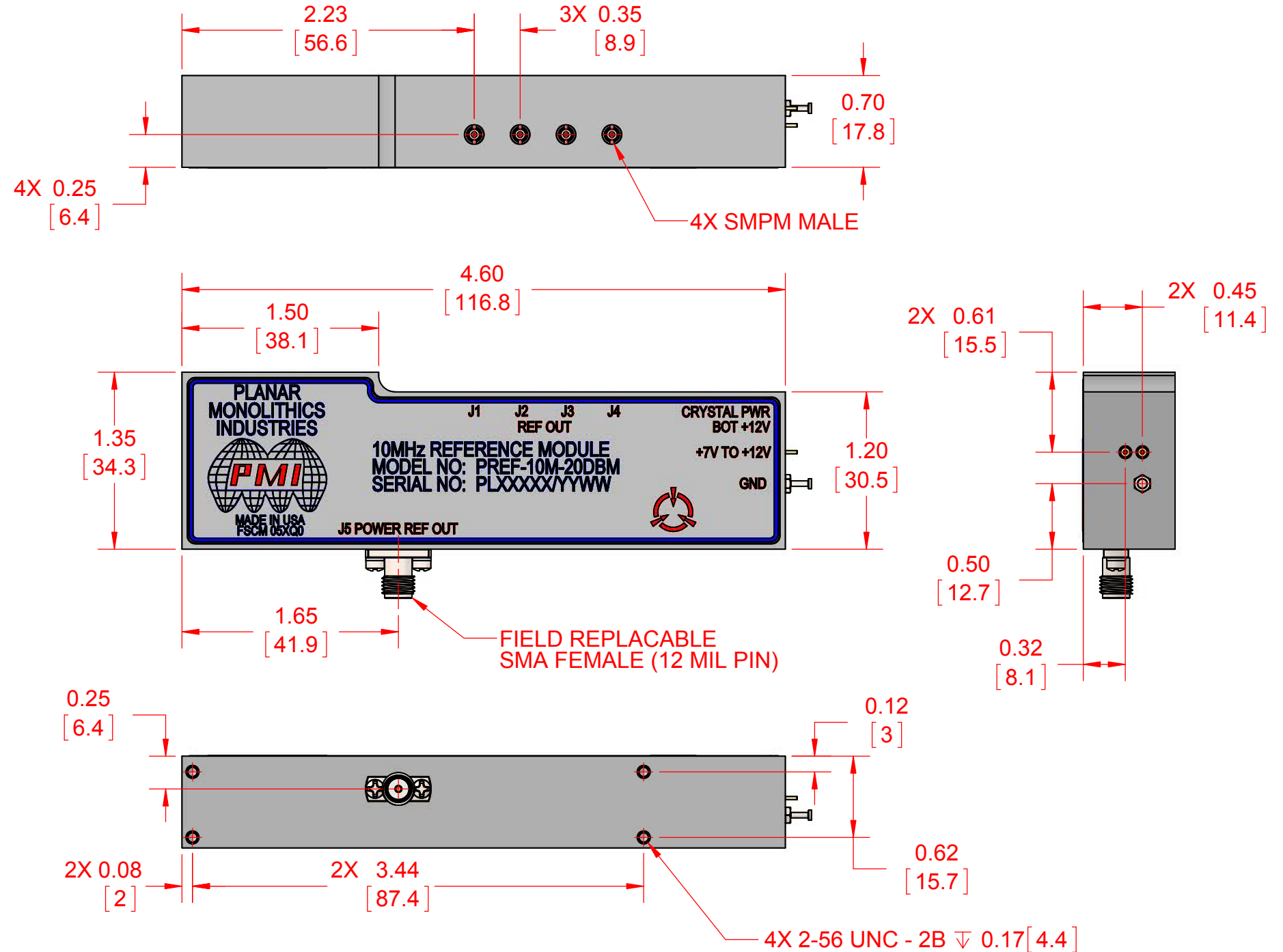
- FREQUENCY:..... 10 MHz
- POWER OUT:
  - POWER REF OUT (J5):..... +20 dBm
  - REF OUT (J1-J4):..... +3 dBm +/- 3 dB
- PHASE NOISE:
  - 100 Hz:..... -130 dBc/Hz
  - 1 KHz:..... -150 dBc/Hz
  - 10 KHz:..... -155 dBc/Hz
- STABILITY:..... +/- 0.1 ppm
- AGING:..... +/- 100 ppb (YEARLY)
- OUTPUT VSWR:..... 2:1 MAX
- DC POWER:
  - CRYSTAL PWR BOT +12V:..... +12VDC @ 700 mA (3 MIN WARMUP)  
+12VDC @ 500 mA (STEADY STATE)
  - +7V TO +12V:..... +7 TO +12VDC @ 350 mA
- OUTPUT CONNECTORS:
  - J1-J4 REF OUT:..... SMPM MALE
  - J5 POWER REF OUT:..... SMA FEMALE (FIELD REPLACABLE)
- SIZE:..... 4.60" X 1.35" X 0.70"
- FINISH:..... NICKEL PLATED



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-40°C TO +85°C (STORAGE)
- HUMIDITY:..... MIL-STD-810, 0 TO 95% NON-CONDENSING
- SHOCK:..... MIL-STD-810, 516.6 COMPLIANT, 20G, 11 ms DURATION
- VIBRATION:..... MIL-STD-810, METHOD 515, FIG. 3 (NON-OP)
- ALTITUDE:..... MIL-STD-810, 15000 FT

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



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN M. HANKEN REDRAWN ISSUED		DATE 3/22/2019	TITLE OUTLINE PREF-10M-20DBM		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01
SIZE B SCALE 1:1		FSCM NO. 05XQ0 DWG NO. 27035932	REV. A1 SHEET 1 OF 1	PLANAR MONOLITHICS INDUSTRIES, INC. 7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: (301)-862-5019, FAX: (301)-662-1731 WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com ISO 9001 CERTIFIED	