

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 +3 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.

SPECIFICATIONS:

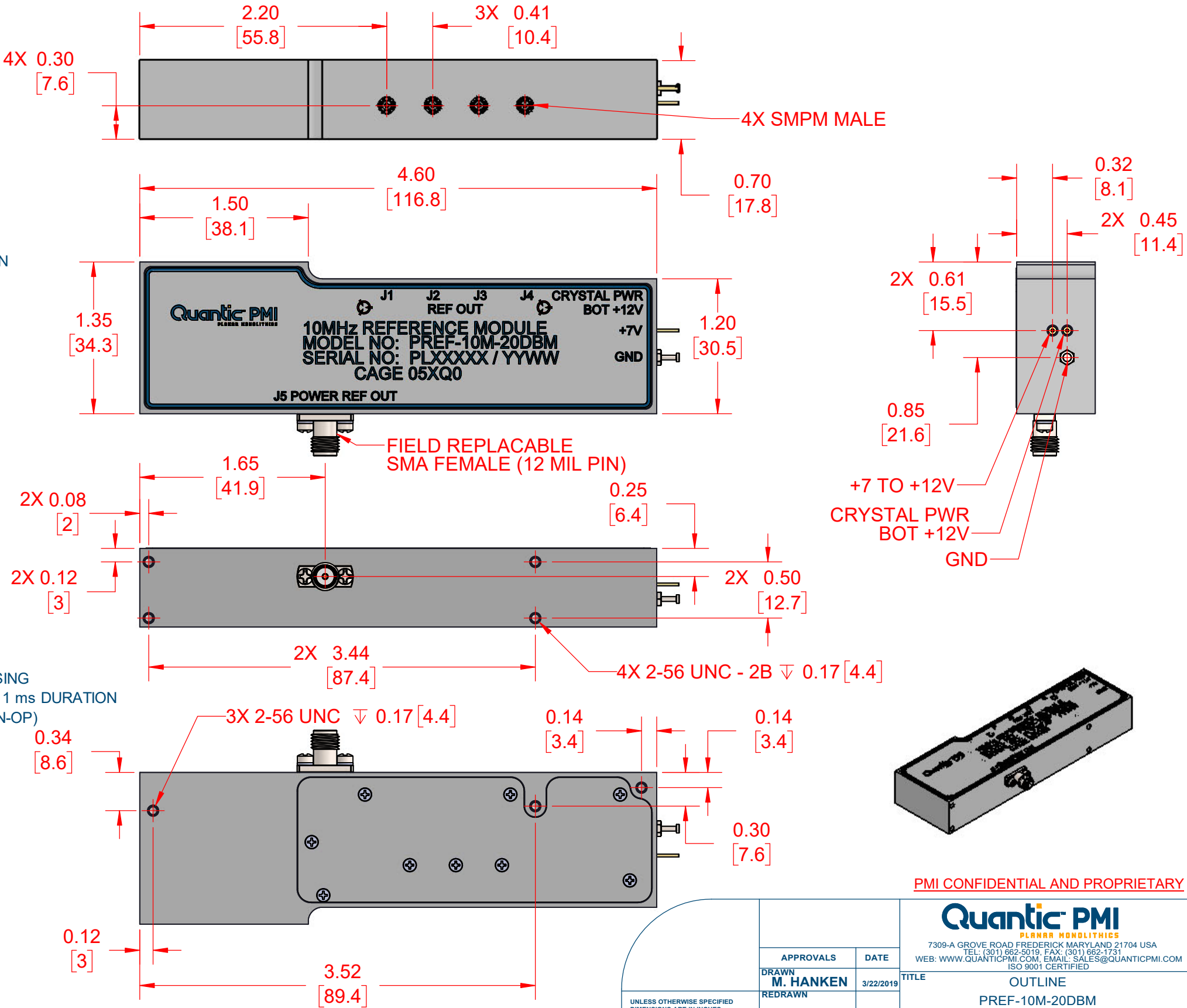
- FREQUENCY:..... 10.000000 MHz \pm 1 Hz
- POWER OUT:
 - POWER REF OUT (J5):..... +20 dBm TO +25 dBm
 - REF OUT (J1-J4):..... +3 dBm \pm 3 dB
- PHASE NOISE:
 - 100 Hz:..... -130 dBc/Hz PASS BY DESIGN
 - 1 KHz:..... -150 dBc/Hz PASS BY DESIGN
 - 10 KHz:..... -155 dBc/Hz PASS BY DESIGN
- STABILITY:..... +/- 0.1 ppm PASS BY DESIGN
- AGING:..... +/- 100 ppb (YEARLY) PASS BY DESIGN
- OUTPUT VSWR:..... 2:1 MAX
- DC POWER:
 - CRYSTAL PWR BOT +12V:..... +12VDC @ 300 mA (3 MIN WARMUP)
 - +12VDC @ 200 mA (STEADY STATE)
 - +7VDC:..... +7 VDC @ 200 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)
- 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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	3/22/2019	
	C1	ECN # 23-0124	7/17/2023	
	D1	ECN # 24-0157	5/29/2024	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE		SIZE	FSCM NO.	DWG NO.	REV.
DRAWN		3/22/2019	OUTLINE		B	05XQ0	27035932	D1
M. HANKEN			PREF-10M-20DBM					
REDRAWN								
ISSUED								
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:			SCALE 1:1		SHEET 1 OF 1			
FRACTIONS	DECIMALS	ANGLES						
\pm	.XX \pm 0.02	\pm						
	.XXX \pm 0.01							

Quantic 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