

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PMIX-7D8G11D2G-1G4D4G-12V IS A DOWN CONVERTER MODULE WITH AN AMPLIFIED BANDPASS OUTPUT OF 1-4.4 GHz.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/17/2019	

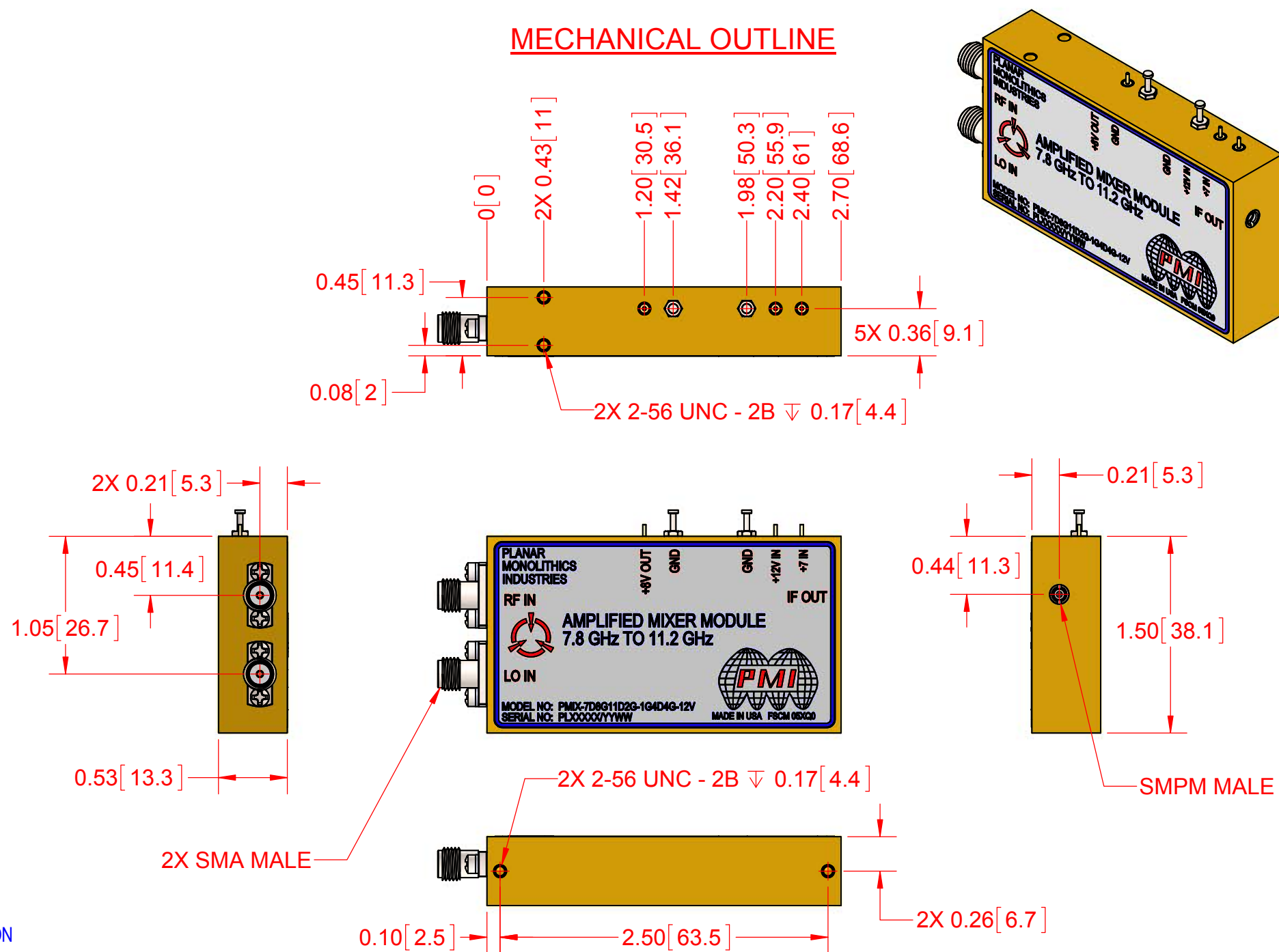
SPECIFICATIONS:

- RF INPUT FREQUENCY RANGE:..... 7.8 TO 11.2 GHz
 - RF INPUT POWER:.....-15 dBm TYP, -10 dBm MAX
 - LO INPUT:.....6.6 GHz
 - LO INPUT POWER:.....+18 dBm TYP
 - IF OUTPUT RANGE:.....1 TO 4.4 GHz
 - GAIN:..... 3 dB TYP
 - HARMONICS:.....-60 dBc MAX
 - SPURIOUS:.....-60 dBc MAX
 - OUTPUT IP3:..... +25 dBm
 - RF INPUT VSWR:..... 5:1 TYP, 6.5:1 MAX
 - IF OUTPUT VSWR:..... 2:1 TYP, 2.5:1 MAX
 - ABSOLUTE MAX RF POWER(SURVIVAL)+25 dBm
 - ABSOLUTE MAX LO POWER(SURVIVAL)+25 dBm
 - DC POWER:..... +7VDC TO +12VDC @ 250 mA
 - CONNECTORS:
 - INPUTS:..... SMA MALE
 - OUTPUT:..... SMPM MALE
 - SIZE:..... 2.70" X 1.50" X 0.525"
 - FINISH:..... GOLD PLATED
- (OPTIONAL)
- DC POWER OUT:..... +8VDC @ 500 mA
(THIS WILL INCREASE DC INPUT POWER)

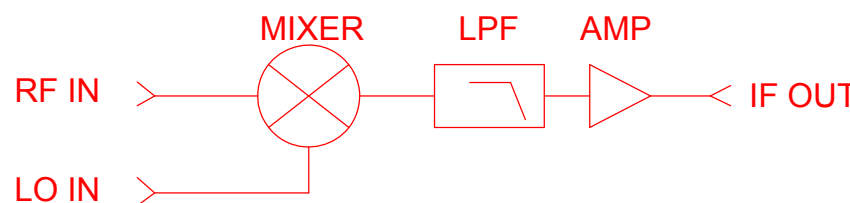
ENVIRONMENTAL RATINGS:

- 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

MECHANICAL OUTLINE



BLOCK DIAGRAM



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

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS	DATE	TITLE
DRAWN M. HANKEN	1/17/2019	OUTLINE
REISSUED		PMIX-7D8G11D2G-1G4D4G-12V
ISSUED		SIZE B FSCM NO. 05XQ0 DWG NO. 27034876 REV. A1
		SCALE 1:1 SHEET 1 OF 1

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