

DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PMIX-14D6G18G-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	3/18/2019	

SPECIFICATIONS:

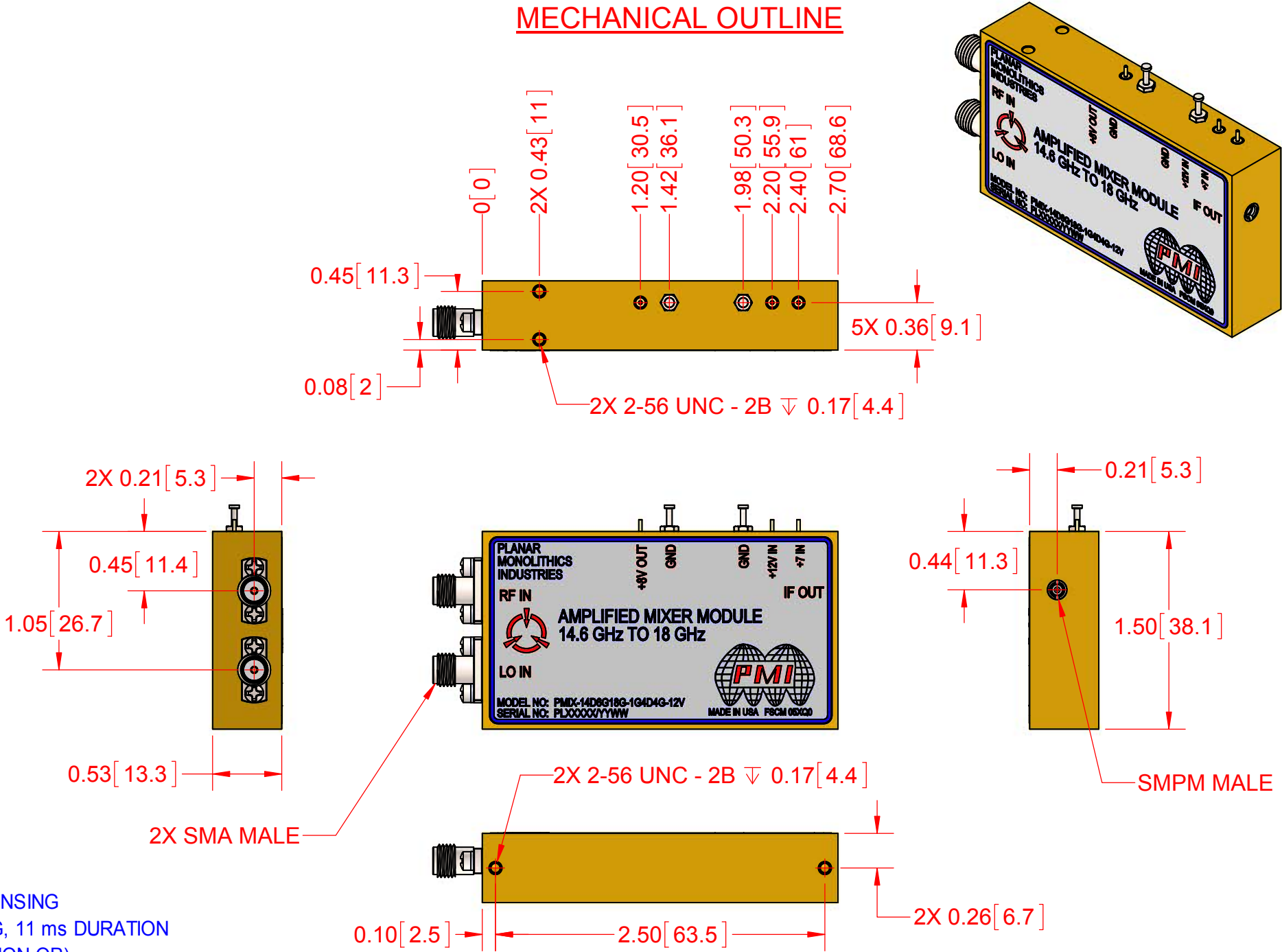
- RF INPUT FREQUENCY RANGE:..... 14.6 TO 18 GHz
 - RF INPUT POWER:.....-15 dBm TYP, -10 dBm MAX
 - LO INPUT:..... 13.6 GHz
 - LO INPUT POWER:.....+18 dBm TYP
 - IF OUTPUT RANGE:..... 1 TO 4.4 GHz
 - GAIN:..... 3 dB TYP
 - HARMONICS:.....-60 dBc MAX
 - SPURIOUS:.....-60 dBc MAX
 - OUTPUT IP3:..... +22 dBm TYP
 - RF INPUT VSWR:..... 5:1 TYP, 6.5:1 MAX
 - IF OUTPUT VSWR:..... 2:1 TYP, 2.4:1 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:

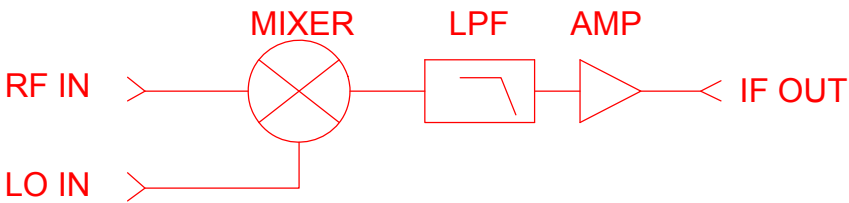
- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-40°C TO +85°C (STORAGE)
- HUMIDITY:..... MIL-STD-810, 0 TO 95% NON-CONDENSING
- SHOCK:..... MIL-STD-810, 516.6 COMPLIANT, 20G, 11 ms DURATION
- VIBRATION:..... MIL-STD-810, METHOD 515, FIG. 3 (NON-OP)
- ALTITUDE:..... MIL-STD-810, 15000 FT

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION
SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: CHANGES TO DRAWING OR SPECIFICATIONS MUST BE APPROVED BY END USER.

MECHANICAL OUTLINE



BLOCK DIAGRAM



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01				APPROVALS DATE DRAWN M. HANKEN REDRAWN ISSUED		DATE 3/18/2019		TITLE OUTLINE PMIX-14D6G18G-1G4D4G-12V		SIZE B	FSCM NO. 05XQ0	DWG NO. 27036190	REV. A1
								SCALE 1:1		SHEET 1 OF 1			

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
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