

**DESCRIPTION:**

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PMIX-11D2G14D6G-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	3/15/2019	

**SPECIFICATIONS:**

- RF INPUT FREQUENCY RANGE:..... 11.2 TO 14.6 GHz
- RF INPUT POWER:.....-15 dBm TYP, -10 dBm MAX
- LO INPUT:..... 10.2 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 TYP
- 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

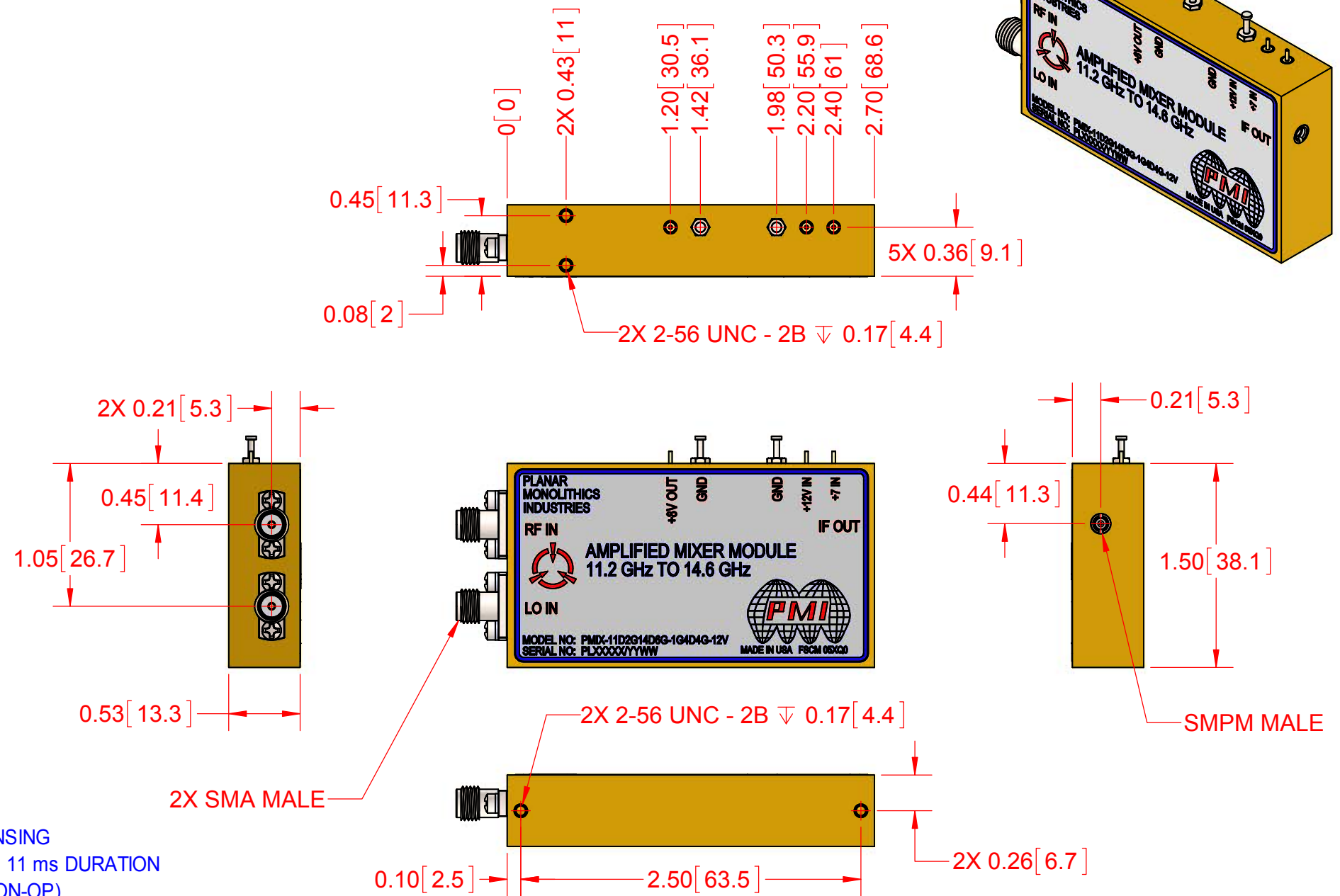
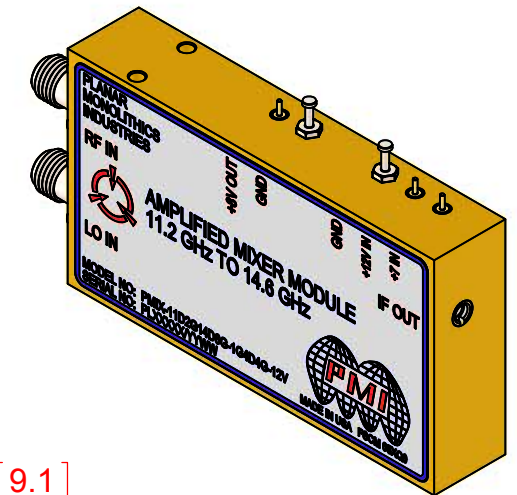
(OPTIONAL)

- DC POWER OUT:.....+8VDC @ 500 mA  
(THIS WILL INCREASE DC INPUT POWER)

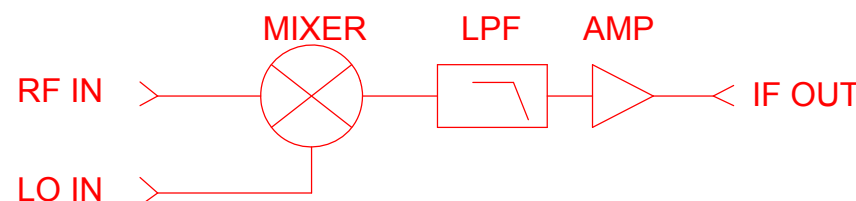
**ENVIRONMENTAL RATINGS:**

- 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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
±	.XX ± 0.02	±
	.XXX ± 0.01	

APPROVALS	DATE
DRAWN <b>M. HANKEN</b>	3/15/2019
REDRAWN	
ISSUED	

PMI CONFIDENTIAL AND PROPRIETARY

**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

TITLE			
OUTLINE			
PMIX-11D2G14D6G-1G4D4G-12V			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27036180	A1
SCALE 1:1			SHEET 1 OF 1