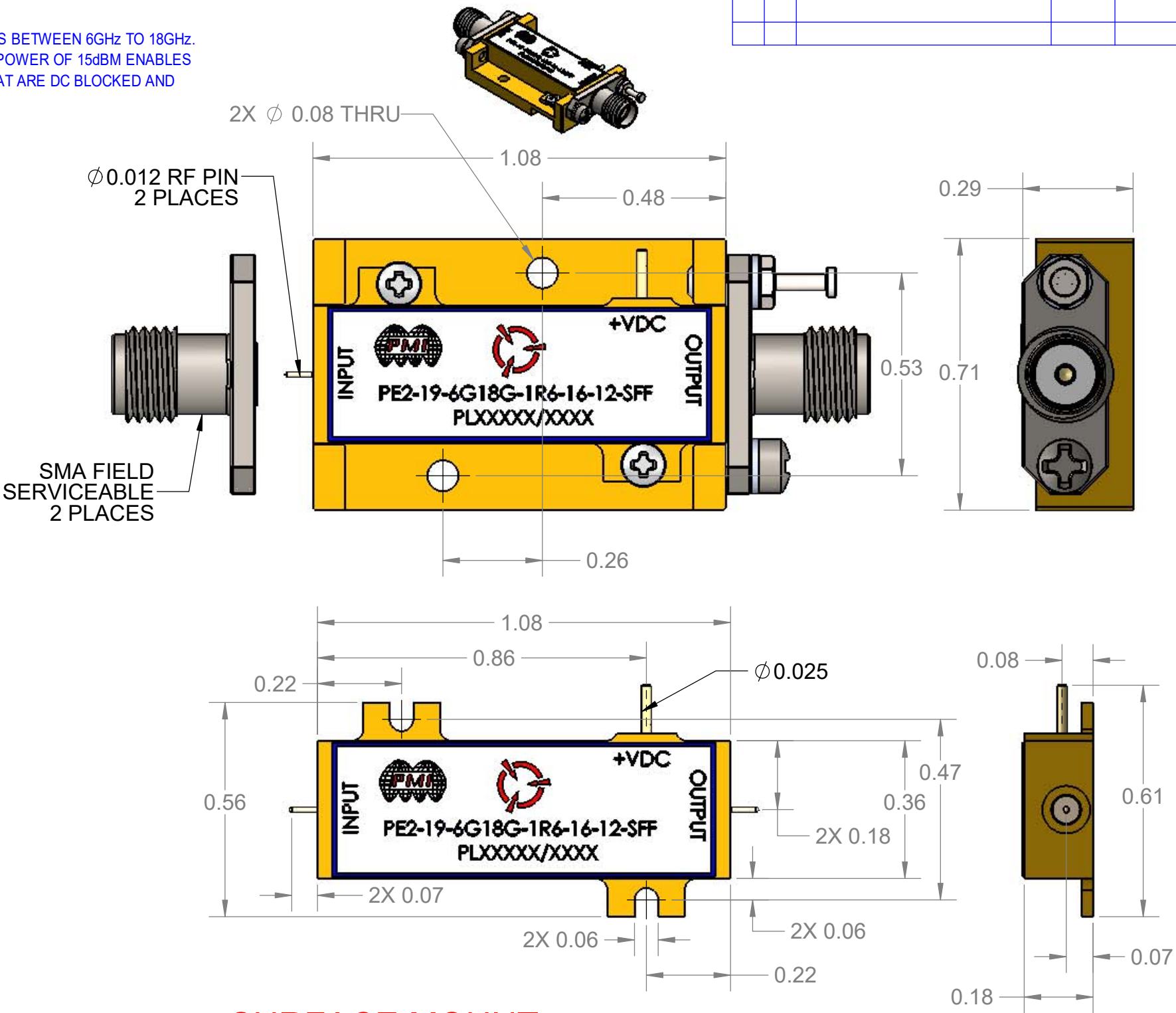


DESCRIPTION:
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PE2-19-6G18G-1R6-16-12-SFF IS A LOW NOISE AMPLIFIER WHICH OPERATES BETWEEN 6GHz TO 18GHz. THIS LNA PROVIDES 19dB OF SMALL SIGNAL GAIN WHILE MAINTAINING A LOW NOISE FIGURE OF ONLY 2dB. THE P1dB OUTPUT POWER OF 15dBm ENABLES THE LNA TO FUNCTION AS A LO DRIVER FOR BALANCED, I/Q OR IMAGE REJECT MIXERS. THIS MODEL ALSO FEATURES I/O's THAT ARE DC BLOCKED AND INTERNALLY MATCHED TO 50 OHMS.

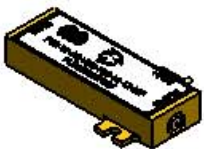
- SPECIFICATIONS:**
- FREQUENCY RANGE:..... 6 GHz TO 18 GHz
GAIN (dB):..... 19 TYPICAL, 17 MINIMUM
NOISE FIGURE (dB):..... 2 TYPICAL, 2.5 MAXIMUM
INPUT RETURN LOSS (VSWR):..... 2.0:1 MAXIMUM
OUTPUT RETURN LOSS (VSWR):..... 2.0:1 MAXIMUM
COMPRESSION P1dB (dBm):..... 15 TYPICAL, 13 MINIMUM
THIRD ORDER INTERCEPT IP3 (dBm):..... 25 TYPICAL, 23 MINIMUM
- MAX POWER IN:..... +10dBm CW
 - POWER:..... 12 VDC @100mA MAXIMUM
 - CONNECTORS:..... SMA FEMALE (FIELD SERVICEABLE)
 - SIZE:..... 1.08 X 0.71 X 0.29
 - FINISH:..... GOLD PLATED

- ENVIRONMENTAL RATINGS:**
- TEMPERATURE:..... -45°C TO +85°C (OPERATING)
..... -65°C TO +150°C (STORAGE)
 - HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
 - SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
 - VIBRATION:..... MIL-STD-202F, METHOD 204D COND. B
 - ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
 - TEMPERATURE CYCLE:..... MIL-STD-202F, METHOD 107D COND. A

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



**SURFACE MOUNT
(CARRIER REMOVED)**



ZONE		REV.	DESCRIPTION	DATE	APPROVED
		A1	ORIGINAL RELEASE	9/12/2017	

APPROVALS		DATE
DRAWN	M. HANKEN	9/12/2017
REDRAWN		
ISSUED		

TITLE			
OUTLINE			
PE2-19-6G18G-1R6-16-12-SFF			
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27031820	A1
SCALE: NONE		SHEET 1 OF 1	

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

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
ISO 9001 CERTIFIED