

## Description:

PMI Model Number: PE2-14-12G22G-3R0-12-SMF is a Low Noise Amplifier designed to operate over the frequency range 12.0GHz to 22.0GHz. This amplifier provides 14.5dB of gain with a OP1dB of +10dBm minimum with a Noise Figure of 4dB maximum. This model operated from a single +12 to +15 volt supply and draws 100mA nominally.

## Specifications:

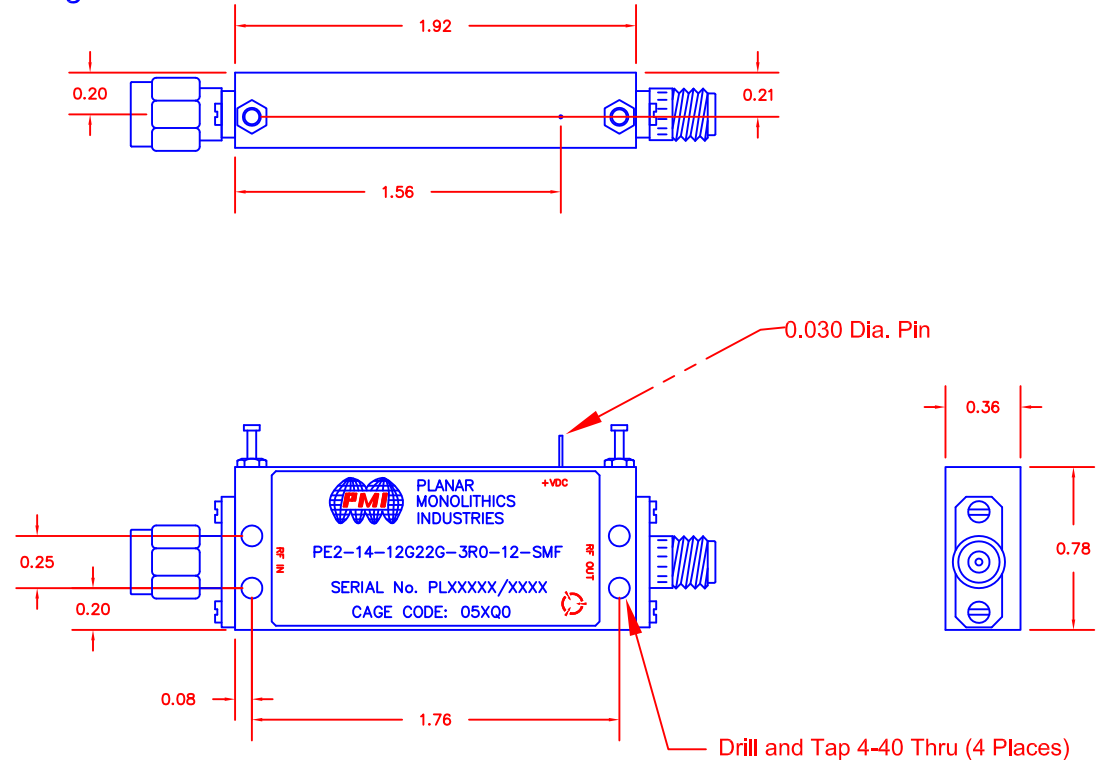
Frequency Range:	12.0 to 22.0 GHz
Gain:	+14.5dB Typ.
Gain Flatness:	+/- 1.0dB Typ.
Noise Figure:	3dB Typ., 4dB Max
OP1dB:	+10dBm Min
VSWR Input/Output:	2.0:1 Max
Impedance:	50 Ohms
DC Voltage Supply:	+12 to +15VDC
DC Current Draw:	100mA Nominal
Connectors In/Out:	SMA Male / SMA Female
Housing:	1.92" x 0.78" x 0.36"
Specification Temperature:	+23 Deg. C
Finish:	Gold Plated

## Environmental Ratings:

Temperature:	-40 to +75 Deg. C (Operating); -55 to +125 Deg. C (Storage)
Humidity:	MIL-STD-202F, METHOD 103B COND B.
Shock:	MIL-STD-202F, METHOD 213B 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.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	2/6/14	
	A1	ECN #15-0169	12/8/15	



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: 301-662-5019 FAX: 301-662-1731  
WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

APPROVALS		DATE	TITLE			
DRAWN <i>K.M.</i>		2/6/14	PRODUCT FEATURE			
CHECKED			PE2-14-12G22G-3R0-12-SMF			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27022342	A1
			SCALE	SHEET		
			N:S	1 OF 1		