

## Description:

PMI Model Number: PE2-22-2G4D2G-3R0-19-12-SFF is a 2.0 to 4.2 GHz low noise amplifier. This amplifier is supplied in our standard PE2 housing that can be used as a SMA connectorized or a surface mount component.

## Specifications:

Frequency Range:	2.0 to 4.2 GHz
Gain:	21.5dB Typical
Gain Flatness:	+/-1.0dB Max.
Noise Figure:	3.0dB Max.
OP1dB:	+19dBm Min.
VSWR Input/Output:	2.0:1 Max.
Input Power:	+20dBm CW Max.
DC Voltage Supply:	+12 to +15VDC
DC Current Draw:	320mA Nominal
Connectors In/Out	SMA Female

## Features:

Internal Voltage Regulation  
Reverse Voltage Protection  
Unconditional Stability

## Available Options:

Various Package types  
Various Connector types  
Temperature Compensation  
Gain and Phase Matching  
MIL-STD-883 Screening Available

## Environmental Ratings:

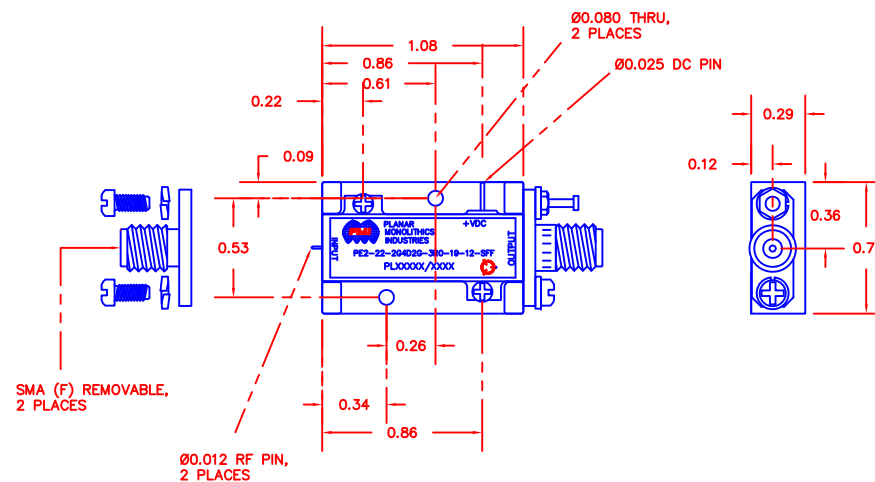
Temperature:	-55 to +85 Deg. C (Operating)
	-65 to +125 Deg. C (Storage)
Humidity:	MIL-STD-202F, METHOD 103B COND B.
Shock:	MIL-STD-202F, METHOD 213B COND B.
Altitude:	MIL-STD-202F, METHOD 105C COND B.
Temperature Cycle:	MIL-STD-202F, METHOD 107D COND A

Note: The above specifications are subject to change or revision.

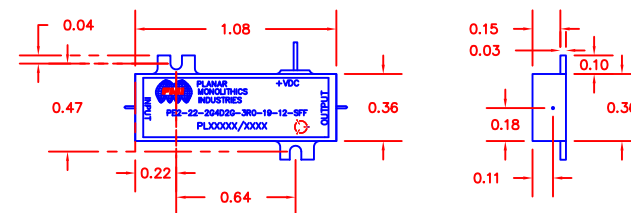
Note: Specifications are valid at +25C.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	7/17/14	
	A1	ECN # 15-0056	5/15/15	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



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>		7/17/14	PRODUCT FEATURE		
CHECKED			PE2-22-2G4D2G-3R0-19-12-SFF		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27023641
			SCALE	N: S	SHEET 1 OF 1
					REV. A1