

## Description:

Model No: PE2-28-15G18G-4R0-13-12-SFM is a 15 to 18 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.

This model provides the following performance. Data is available upon request.

## Specifications:

Frequency Range: 15 to 18 GHz  
Gain: 26dB Typ. @ 10 - 18 GHz  
Gain Flatness:  $\pm 0.5$  dB Max @ +25°C  
 $\pm 0.75$ dB Max @ -55°C to +85°C  
Noise Figure: 4.0dB Max.  
OP1dB: +13dBm Min.  
VSWR Input/Output: 1.5:1 Typ, 1.8:1 Max.  
Max Input Power: +20dBm CW  
DC Voltage Supply: +12 to +15VDC  
DC Current Draw: 200mA Max.  
Isolation: -65dB Typ @ 10 to 13 GHz  
-60dB Typ. @ 15 to 18 GHz  
Connectors In/Out: SMA Female/Male  
Finish: Gold Plated

## Features:

Internal Voltage Regulation  
Unconditional Stability  
Standard Operating Temperature -55°C to +85° C

## Available Options:

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

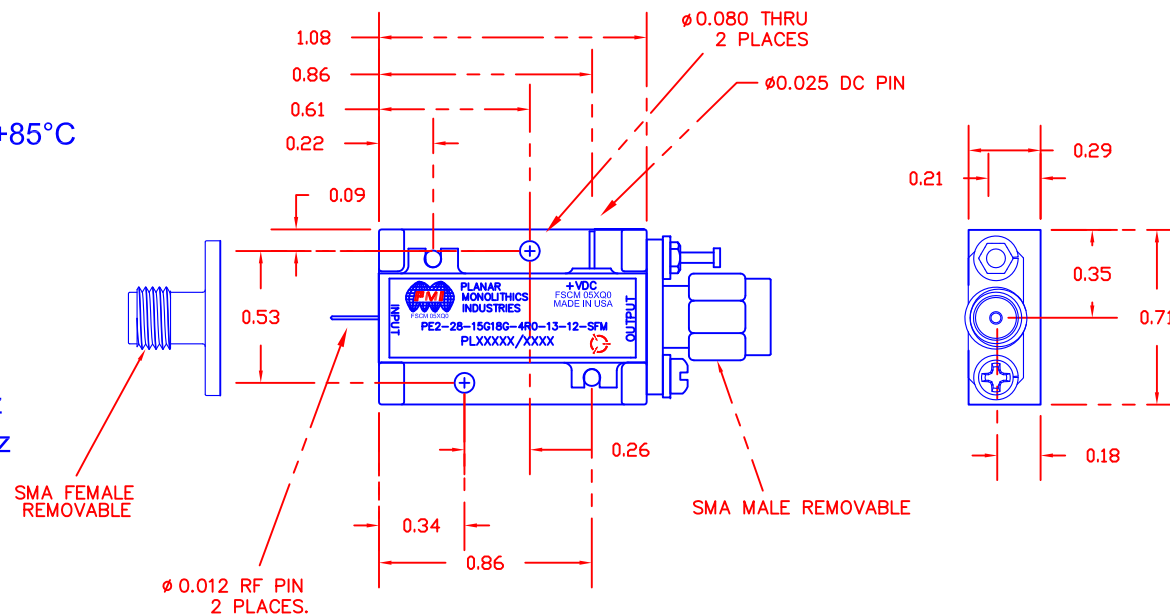
## Environmental Ratings:

Temperature: -55°C to +85°C (Operating)  
-65°C to +125°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
	-	PRELIMINARY	05/12/17
		DATE	APPROVED

## MECHANICAL OUTLINE



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  $\pm 0.020$   
X.XXX  $\pm 0.010$

APPROVALS		DATE	TITLE			
DRAWN		11/05/07	PRODUCT FEATURE			
MODIFIED		06/06/11	PE2-28-15G18G-4R0-13-12-SFM			
REDRAWN		05/12/17	SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N: S	SHEET	1 OF 1