

## Description:

Model No: PE2-45-1R018R0-4R5-15-12-SFF is a 1.0 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:	1.0 to 18 GHz
Gain:	45 dB Typ.
Gain Flatness:	+/- 1.5 dB Typ, +/- 1.75 dB Max
Noise Figure:	5.0 dB Max.
OP1dB:	+15 dBm Min.
Output Power:	+17dBm +/-2.5dBm Typ. (-25 to +3dBm Input)
VSWR Input/Output:	2.0:1 Max.
PSAT:	+15 dBm Min. @ 18 GHz
DC Voltage Supply:	+12 to +15VDC
DC Current Draw:	240mA Typ
Connectors In/Out	SMA Female
Finish:	Gold Plated

## Features:

Internal Voltage Regulation  
Unconditional Stability

## Available Options:

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

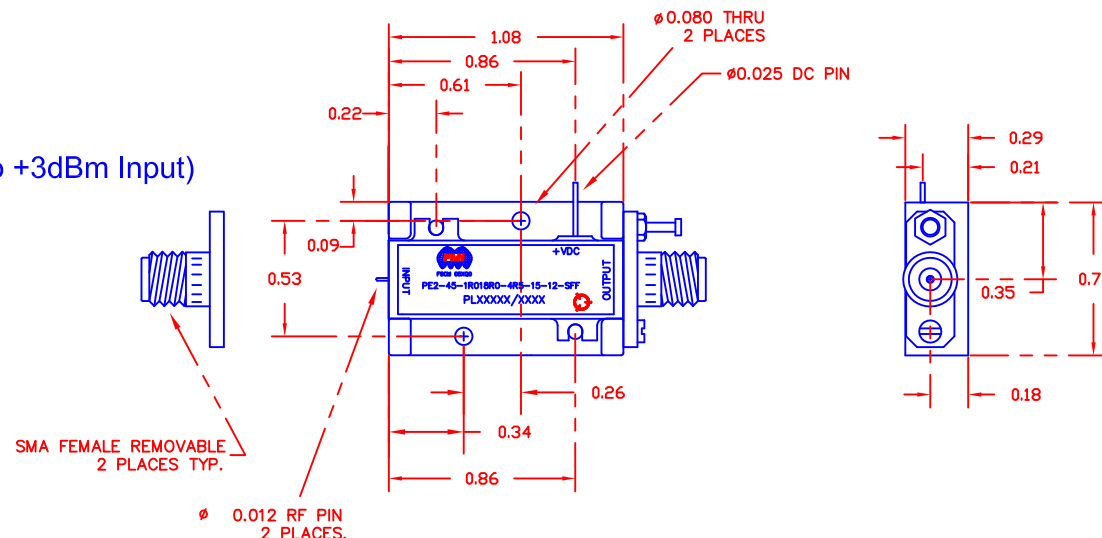
## Environmental Ratings:

Temperature:	-55°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	APPROVED
	A	ORIGINAL RELEASE	12/09/10	
	B	CORRECTED PSAT SPEC.	01/17/11	

## MECHANICAL OUTLINE



PROPRIETARY & CONFIDENTIAL

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN	<i>KM</i>		12/09/10	PRODUCT FEATURE PE2-45-1R018R0-4R5-15-12-SFF	
CHECKED				SIZE	FSCM NO.
ISSUED				A	05XQ0
				DWG NO.	27007043
				SCALE	N: S
				SHEET	1 OF 1

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005