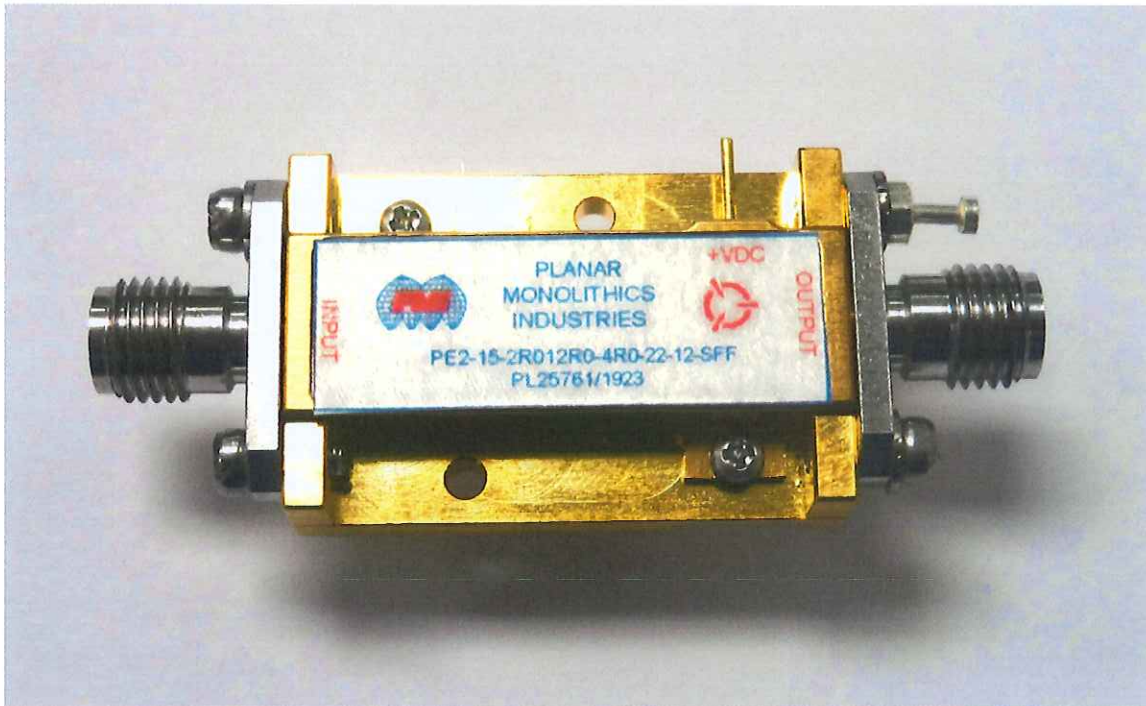




**Typical Characteristics  
On  
PE2-15-2R012R0-4R0-22-12-SFF**

PMI MODEL: PE2-15-2R012R0-4R0-22-12-SFF IS A LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR PE2 HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNTED COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE. DATA IS AVAILABLE UPON REQUEST.



Designed by: PMI Engineering

June 11, 2019

Tested & Reported by: K. Mansfield

Page 1 of 6



**Typical Characteristics  
On  
PE2-15-2R012R0-4R0-22-12-SFF**

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## Typical Characteristics On PE2-15-2R012R0-4R0-22-12-SFF

### Product Feature & Mechanical Drawing

REV.	REV.	DESCRIPTION	DATE	APP'D/CHK'D
A1		INITIAL RELEASE	02/12/10	

**DESCRIPTION**

PMI MODEL: PE2-15-2R012R0-4R0-22-12-SFF IS A LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR PE2 HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR SURFACE MOUNTED COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE. DATA IS AVAILABLE UPON REQUEST.

**SPECIFICATIONS**

- FREQUENCY RANGE: 2.0 TO 12.0 GHz
- GAIN: 15 dB TYPICAL
- GAIN FLATNESS: ±1.0 dB MAXIMUM
- NOISE FIGURE: 4.0 dB TYPICAL
- OP 1dB: +22 dBm MINIMUM
- VSWR (INPUT/OUTPUT): 2.0:1 MAXIMUM
- DC VOLTAGE SUPPLY: +12 TO +15 VDC
- DC CURRENT DRAW: 250 mA MAXIMUM
- CONNECTORS: SMA FEMALE
- FINISH: GOLD PLATED

**FEATURES**

- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY
- STANDARD OPERATING TEMPERATURE (-20 °C TO +70 °C)

**AVAILABLE OPTIONS**

- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- HERMETIC SEALING
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

**ENVIRONMENTAL RATINGS**

- TEMPERATURE: -20 °C TO +70 °C (OPERATING)  
-55 °C TO +85 °C (AVAILABLE)  
-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: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PE2 HOUSING WITH CARRIER**

**PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)**

**PLANAR MONOLITHICS INDUSTRIES, INC.**  
7311-F GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: (301)-662-6010, FAX: (301)-662-1731  
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com  
ISO 9001 CERTIFIED

APPROVALS		DATE		TITLE	
DESIGN	USR		02/12/10	PRODUCT FEATURE PE2-15-2R012R0-4R0-22-12-SFF	
CHANGED		REV		QTY	
ISSUED		REV		QTY	

REV	QTY	REV	QTY
A	05X00	0000	27038400
REV		REV	

SHEET 1 OF 1

PMI CONFIDENTIAL AND PROPRIETARY



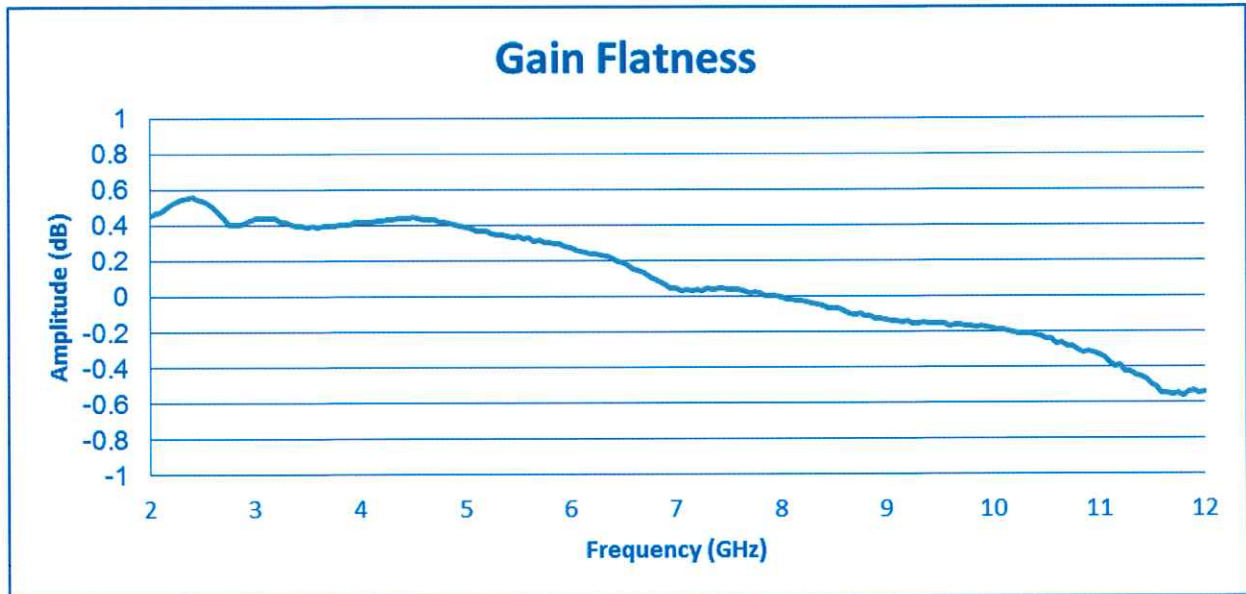
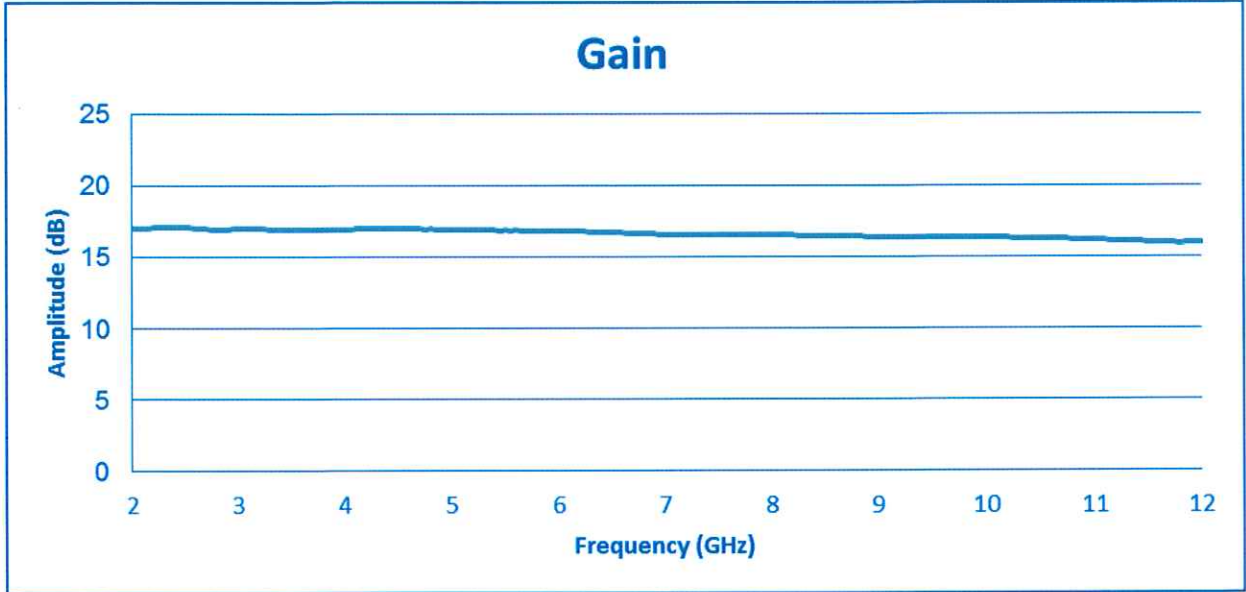
**Typical Characteristics  
On  
PE2-15-2R012R0-4R0-22-12-SFF**

**Tabulated Data**

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2.0 GHz - 12 GHz	2.0 GHz - 12 GHz See Plot	
2	Gain:	+15 dB Typ.	16.6 dB See Plot	
3	Gain Flatness:	±1.0 dB Max.	±0.6 dB See Plot	
4	Noise Figure:	4.0 dB Typ.	3.1 dB See Plot	
5	OP1dB:	+22 dBm Min.	+22.7 dBm See Plot	
6	VSWR: (Input/Output)	2.0:1 (Max.)	1.2:1 In 1.4:1 Out See Plot	
7	DC Supply:	+12 to +15 VDC @ 250 mA Max.	231 mA	



**Typical Characteristics  
On  
PE2-15-2R012R0-4R0-22-12-SFF**





Typical Characteristics  
On  
PE2-15-2R012R0-4R0-22-12-SFF

