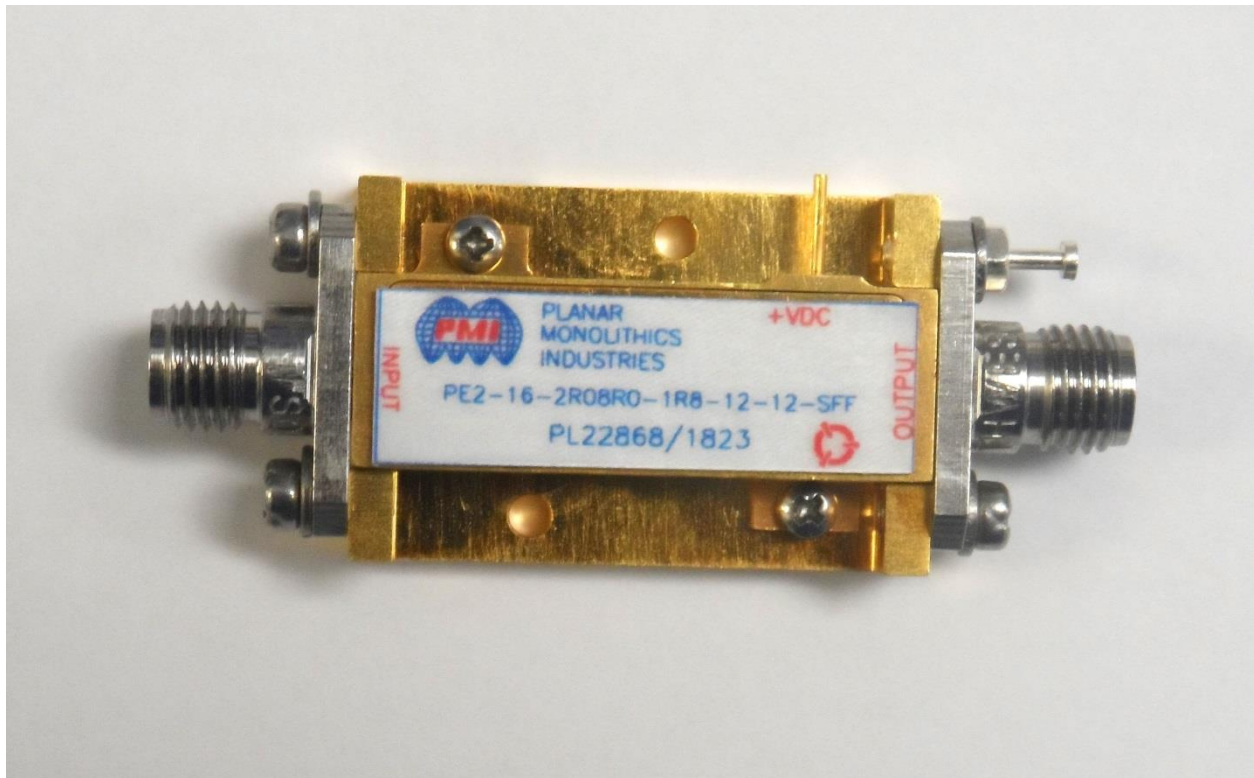




**TYPICAL CHARACTERISTICS
ON
PE2-16-2R08R0-1R8-12-12-SFF**

LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING CAN BE USED AS A SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE.



June, 12 2018

Designed By: PMI Engineering

Tested By: Kevin Mansfield

Page 1 of 7

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



**TYPICAL CHARACTERISTICS
ON
PE2-16-2R08R0-1R8-12-12-SFF**

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TYPICAL CHARACTERISTICS ON PE2-16-2R08R0-1R8-12-12-SFF

DESCRIPTION

LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING CAN BE USED AS A SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 to 8.0 GHz
- GAIN: +16 dB TYP
- GAIN FLATNESS: ±1.5 dB MAX
- NOISE FIGURE: 1.8 dB TYP
- VSWR INPUT/OUTPUT: 2.0:1 MAX
- OP1dB: +10 dBm MIN
- DC VOLTAGE SUPPLY: +12 to +15 VDC
- DC CURRENT DRAW: 65 mA MAX
- 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: -20°C TO + 70°C (OPERATING)
-55°C TO +125°C (STORAGE)
HUMIDITY: MIL-STD-202F, METHOD 1038 COND B.
SHOCK: MIL-STD-202F, METHOD 2138 COND B.
ALTITUDE: MIL-STD-202F, METHOD 105C COND B.
TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND A

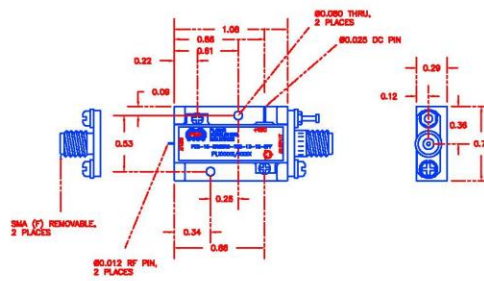
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

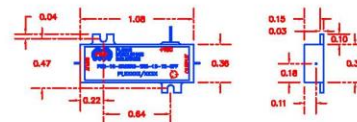
ALL DIMENSIONS
ARE IN INCHES (DIM)
TOLERANCES:
XXX ±0.020
XXXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/1/2018	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE		REV.
DRAWN	<i>ELF</i>		08/20/16	PRODUCT FEATURE		
REVISION	<i>JPL</i>		08/18/17	PE2-16-2R08R0-1R8-12-12-SFF		
ISSUED		SIZE	FROM NO.	DWG NO.		
		A	05XQ0	27034140		A1
		SCALE	N:S			SHEET 1 OF 1

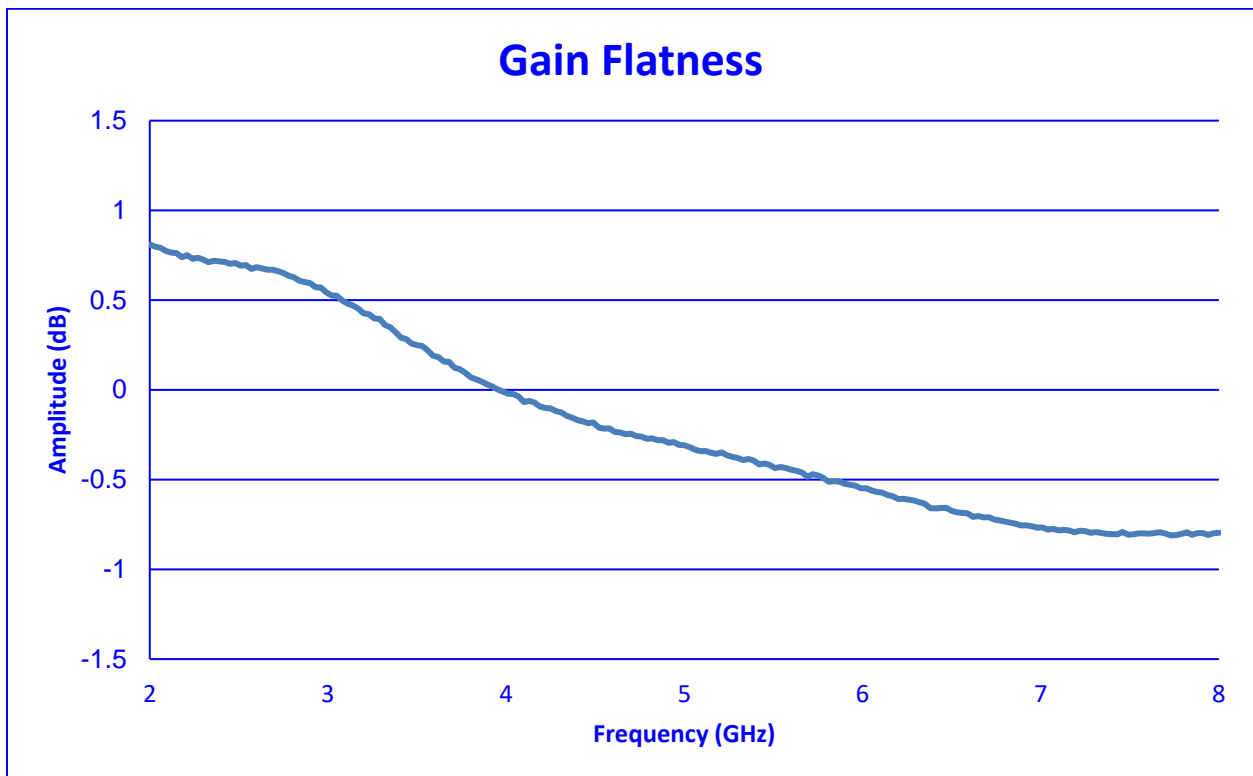
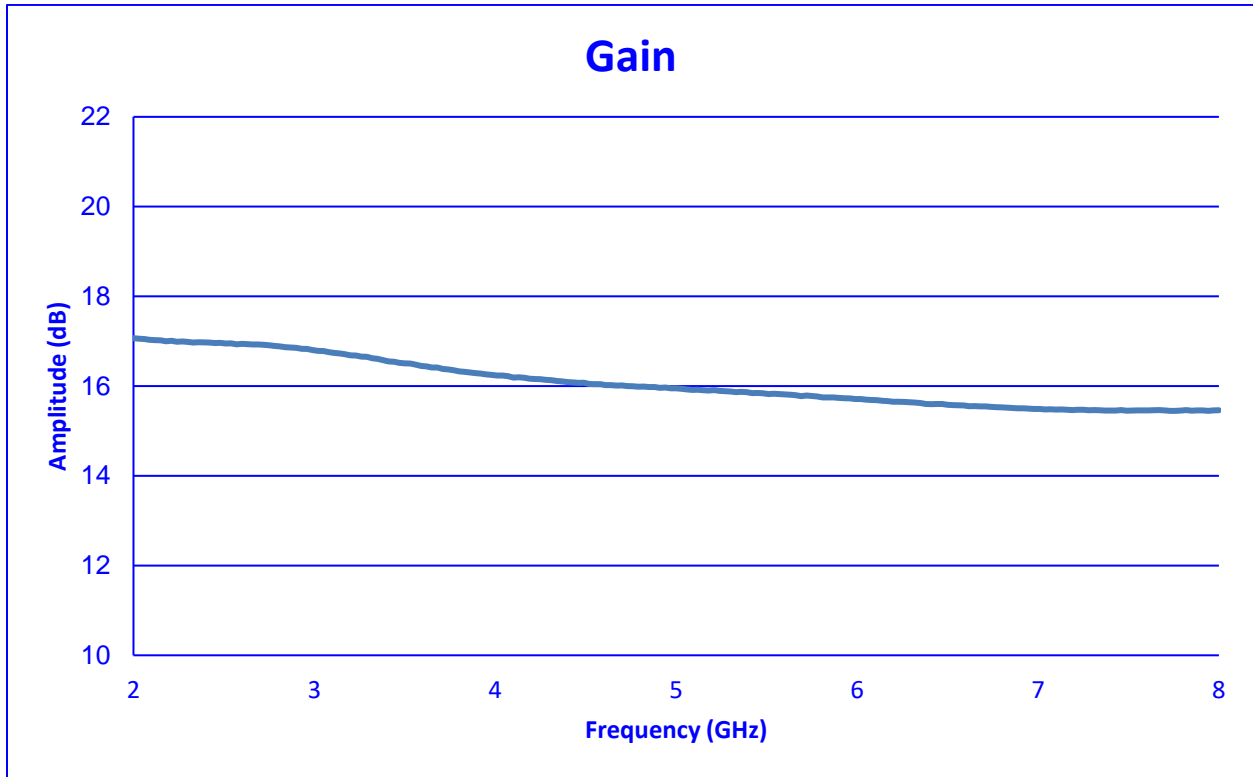


**TYPICAL CHARACTERISTICS
ON
PE2-16-2R08R0-1R8-12-12-SFF**

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2.0 to 8.0 GHz	2.0 to 8.0 GHz	
2	Gain:	+16 dB Typ.	16.3 dB See Plot	
3	Gain Flatness:	±1.5 dB Max.	±0.8 dB See Plot	
4	Noise Figure:	1.8 dB Typ.	1.6 dB See Plot	
5	OP1dB:	+10 dBm Min.	+12.7 dB See Plot	
6	VSWR: (Input/Output)	2.0:1 Max.	1.9:1 In 1.4:1 Out See Plot	
7	DC Supply:	+12 to +15 VDC @ 65 mA Max.	65 mA	

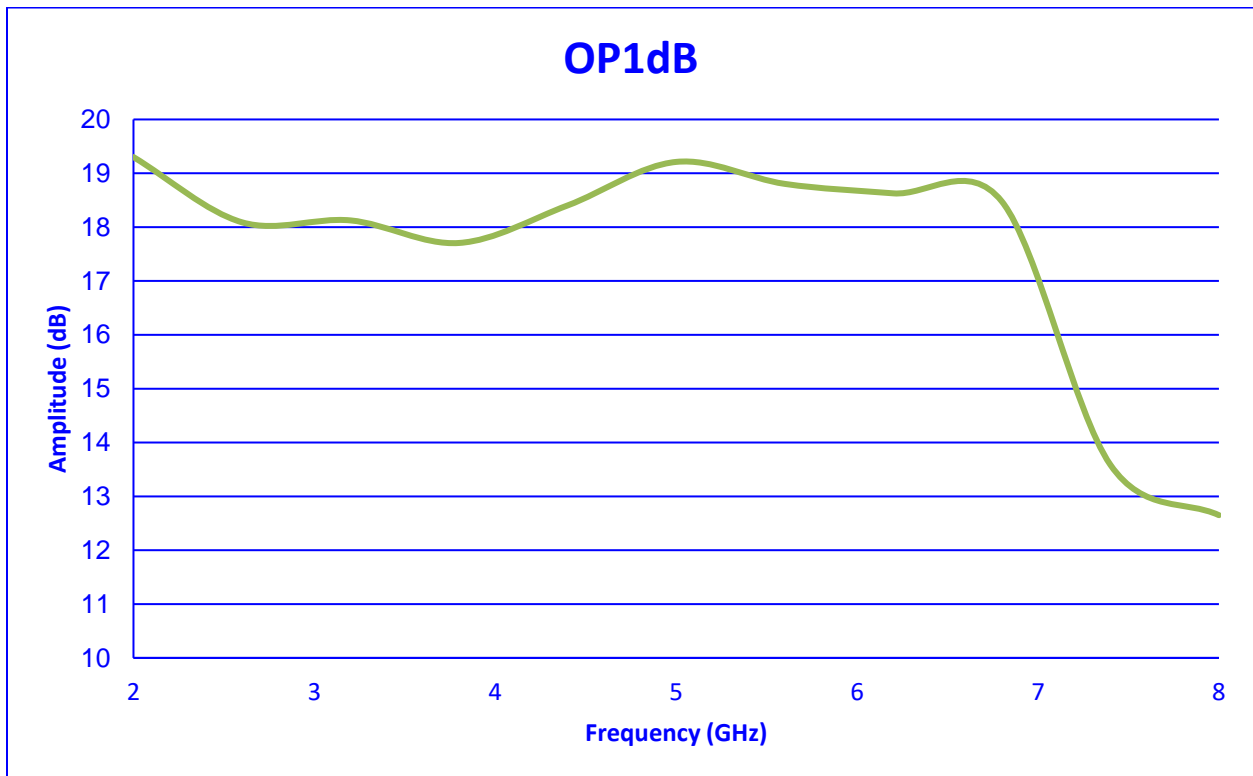
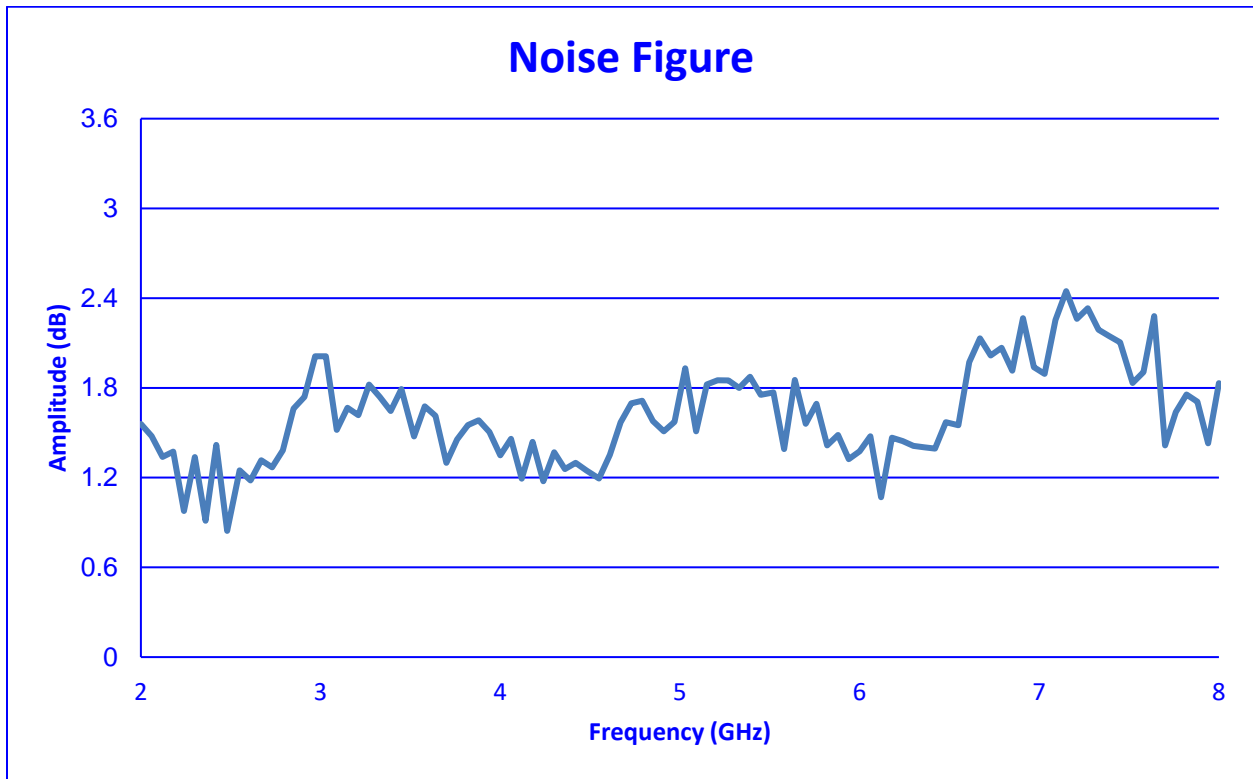


**TYPICAL CHARACTERISTICS
ON
PE2-16-2R08R0-1R8-12-12-SFF**





**TYPICAL CHARACTERISTICS
ON
PE2-16-2R08R0-1R8-12-12-SFF**





**TYPICAL CHARACTERISTICS
ON
PE2-16-2R08R0-1R8-12-12-SFF**

