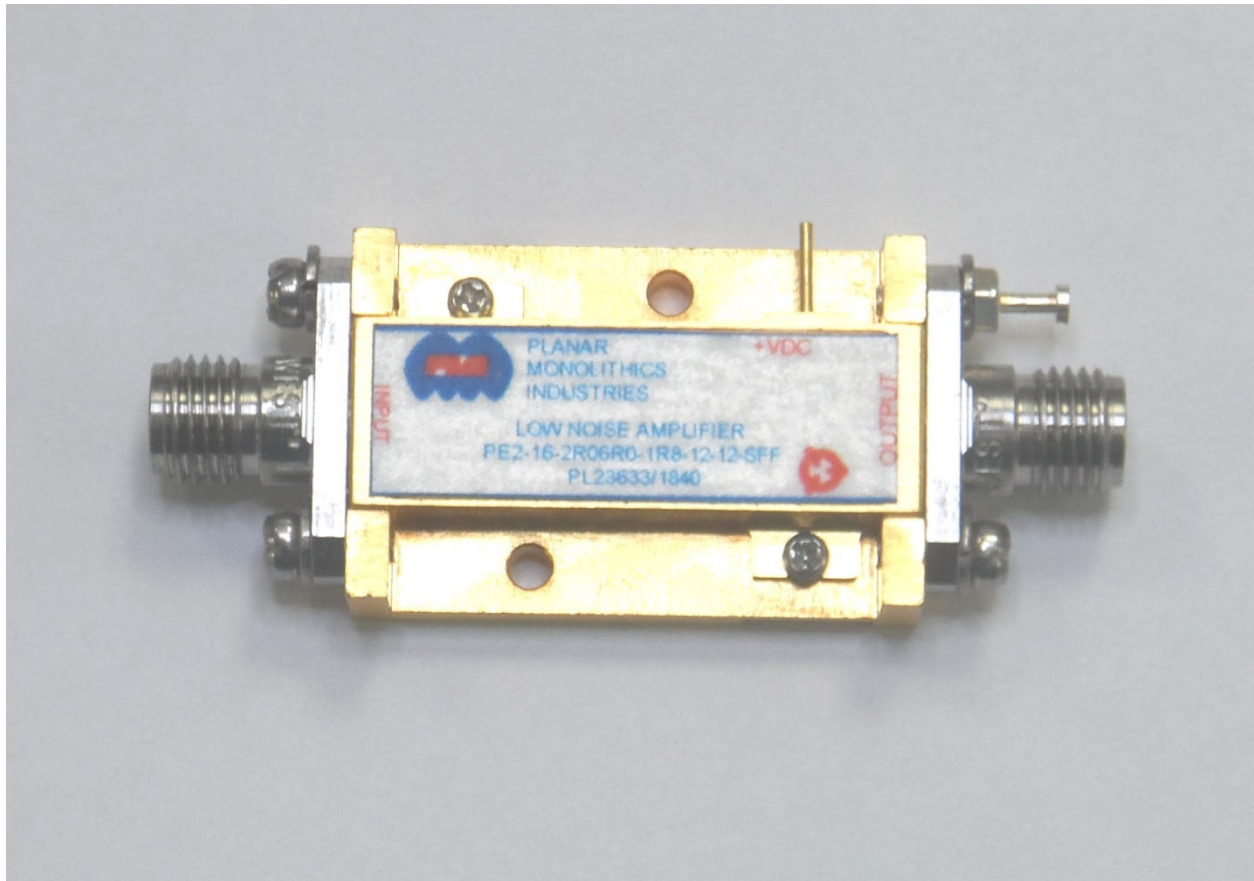




**TYPICAL CHARACTERISTICS
ON
PE2-16-2R06R0-1R8-12-12-SFF**

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.



October, 2 2018

Designed By: PMI Engineering

Tested By: Kevin Mansfield



**TYPICAL CHARACTERISTICS
ON
PE2-16-2R06R0-1R8-12-12-SFF**

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TYPICAL CHARACTERISTICS ON PE2-16-2R06R0-1R8-12-12-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 6.0 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 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

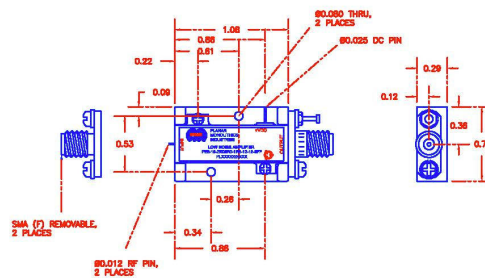
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

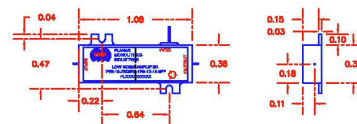
ALL DIMENSIONS
ARE IN INCHES (MM)
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/21/2018	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE		REV.	
DESIGN	SMF		06/20/18	PRODUCT FEATURE		A1	
REVISION	JPL		6/21/18	PE2-16-2R06R0-1R8-12-12-SFF			
ISSUED				SIZE	FIG. NO.	DWG. NO.	
				A	05XQ0	27035320	
				SCALE	N:S	SHEET	1 OF 1

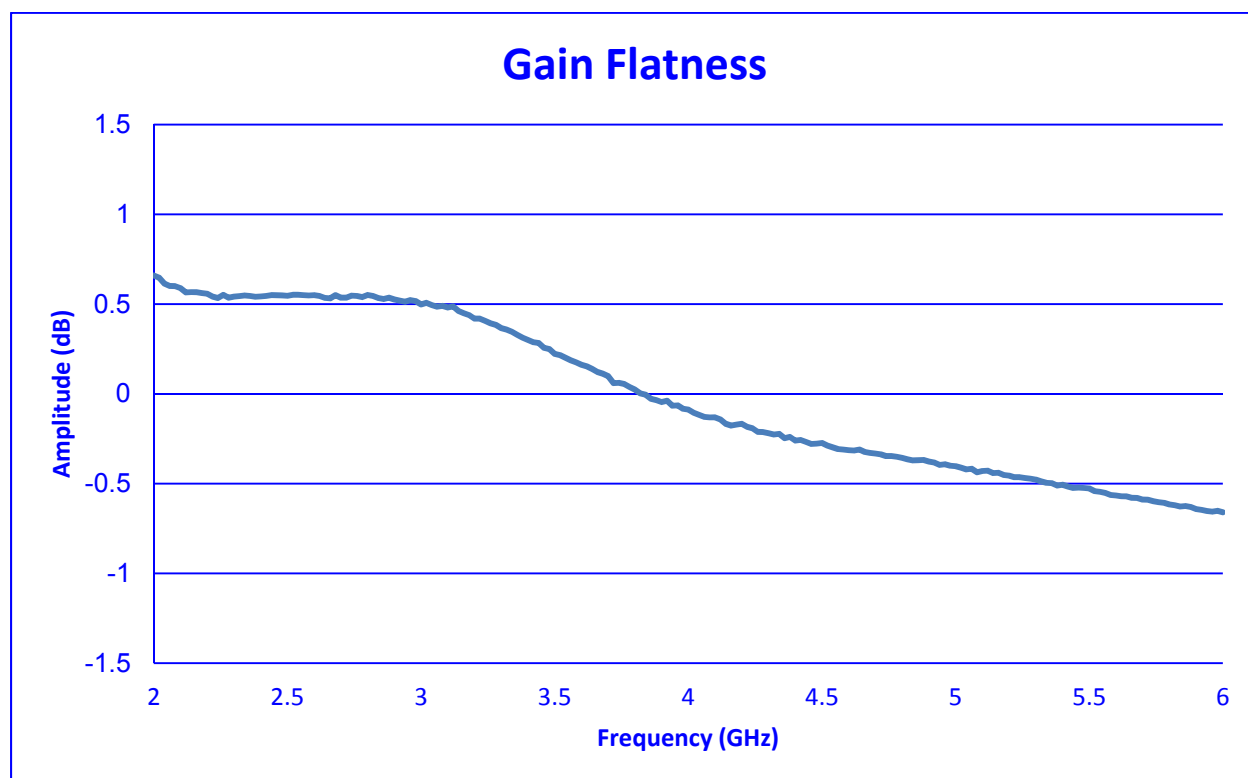
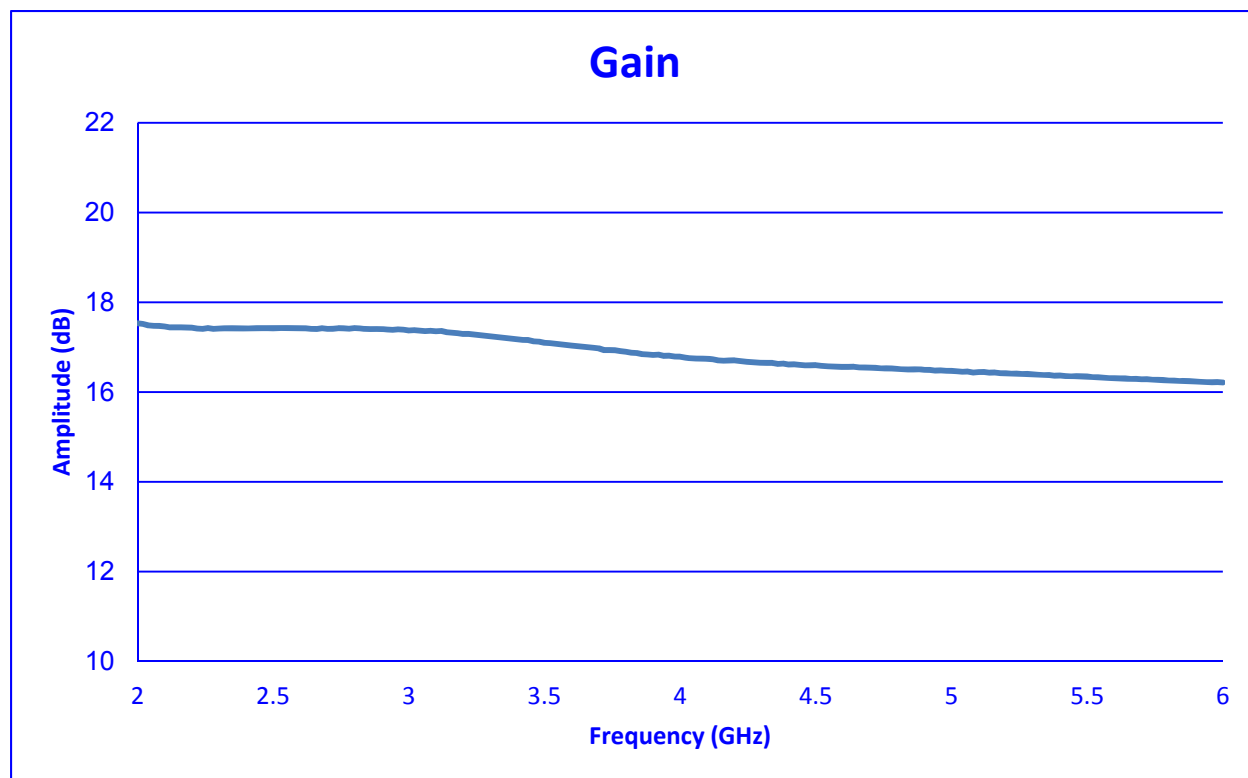


**TYPICAL CHARACTERISTICS
ON
PE2-16-2R06R0-1R8-12-12-SFF**

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2.0 to 6.0 GHz	2.0 to 6.0 GHz	
2	Gain:	+16 dB Typ.	16.9 dB See Plot	
3	Gain Flatness:	± 1.5 dB Max.	± 0.7 dB See Plot	
4	Noise Figure:	1.8 dB Typ.	1.3 dB See Plot	
5	OP1dB:	+10 dBm Min.	+11.2 dB See Plot	
6	VSWR: (Input/Output)	2.0:1 Max.	1.7:1 In 1.3:1 Out See Plot	
7	DC Supply:	+12 to +15 VDC @ 65 mA Max.	65 mA	



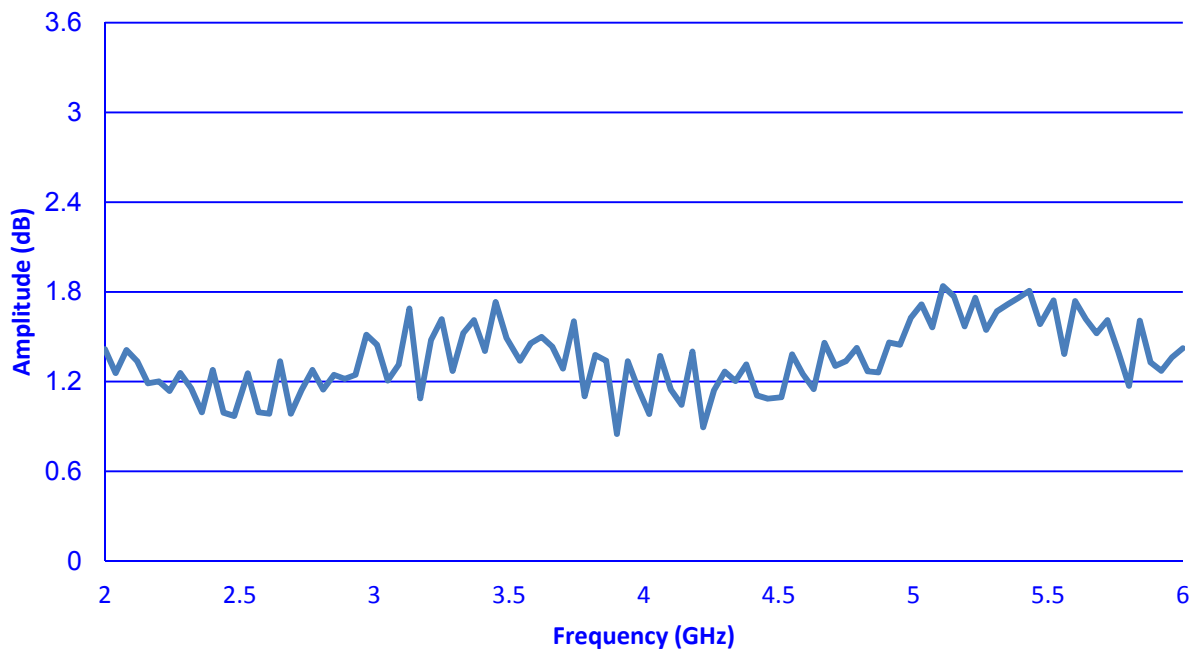
**TYPICAL CHARACTERISTICS
ON
PE2-16-2R06R0-1R8-12-12-SFF**



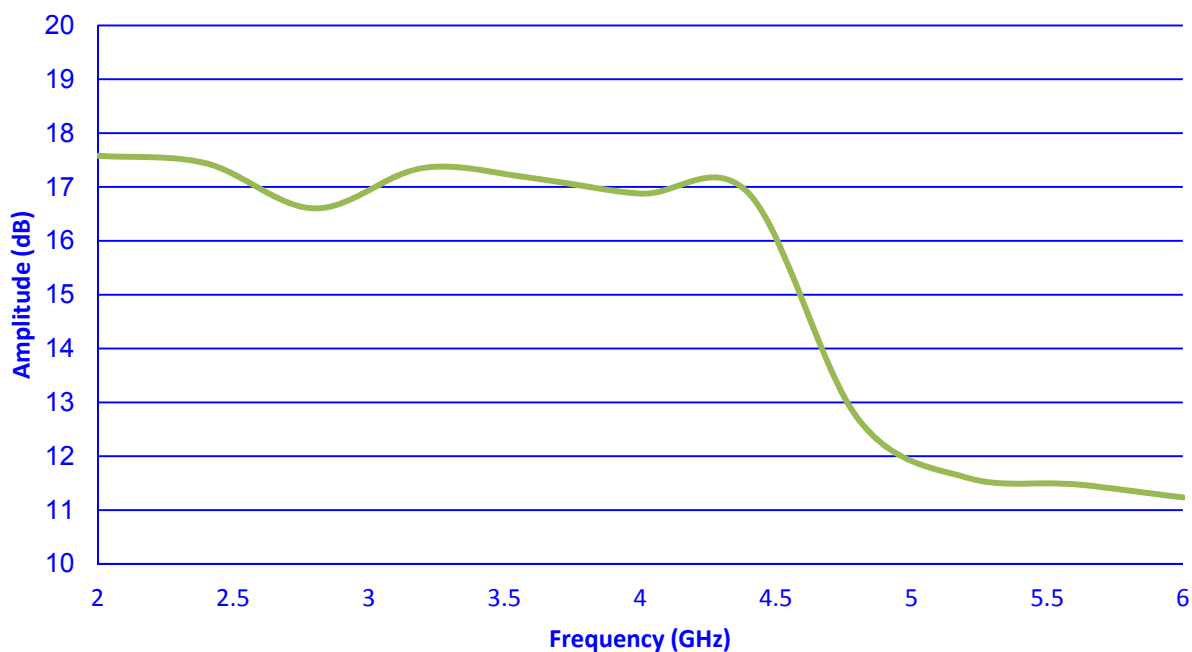


**TYPICAL CHARACTERISTICS
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Noise Figure

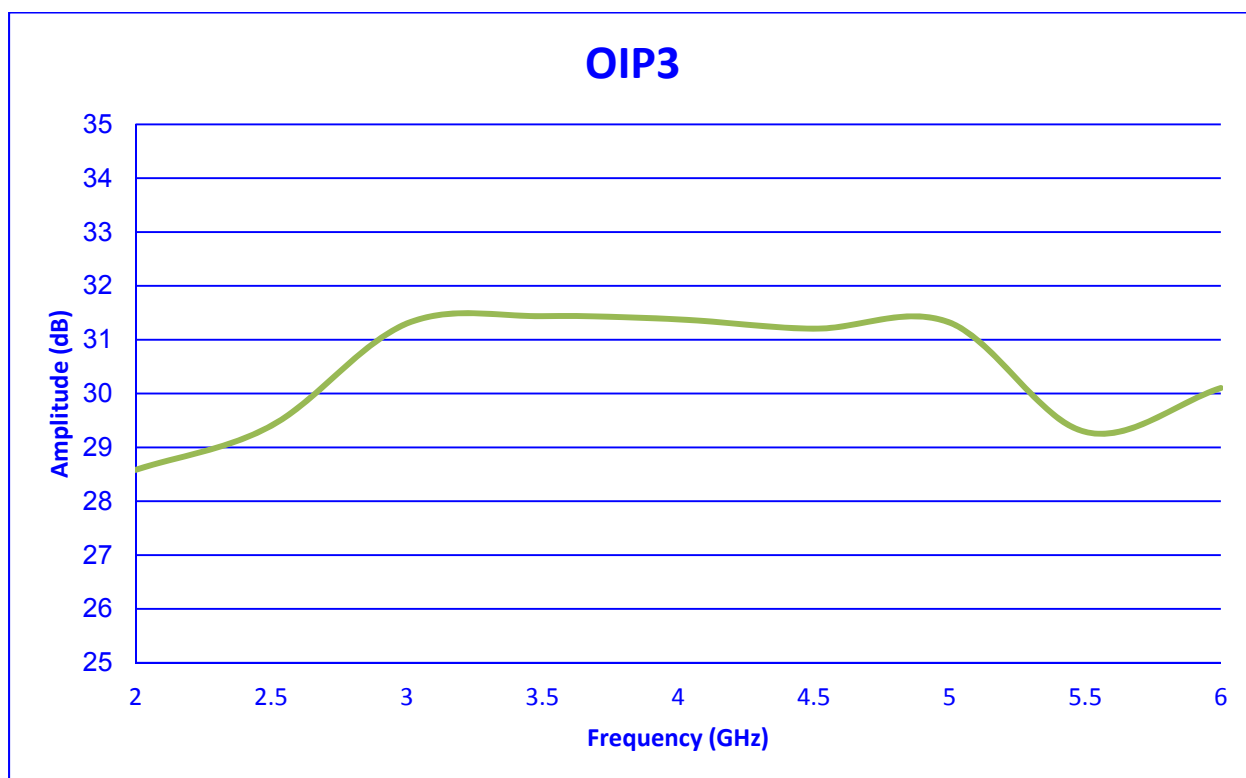
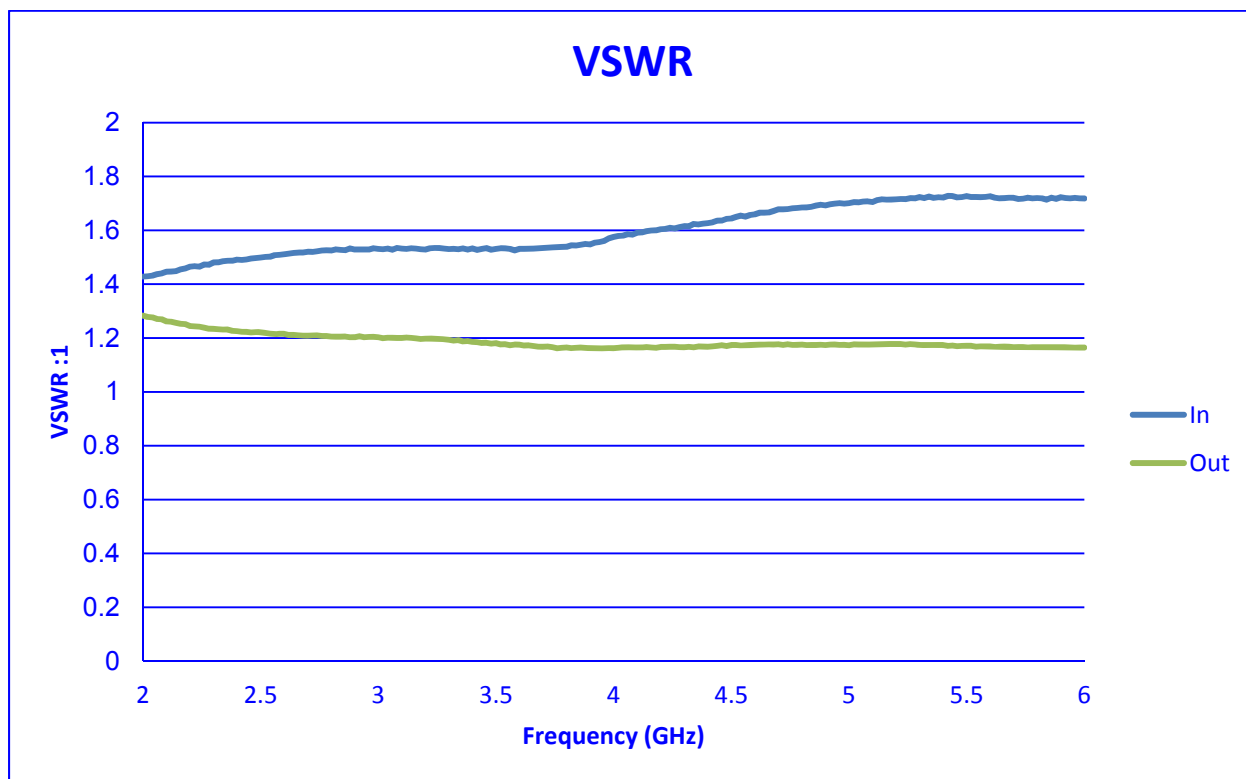


OP1dB





**TYPICAL CHARACTERISTICS
ON
PE2-16-2R06R0-1R8-12-12-SFF**





**TYPICAL CHARACTERISTICS
ON
PE2-16-2R06R0-1R8-12-12-SFF**

