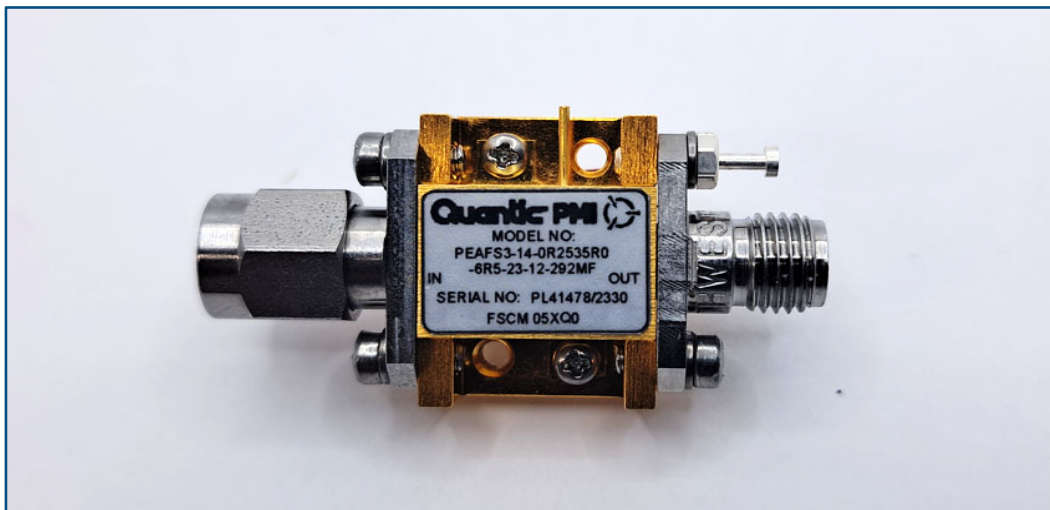


**Typical Characteristics
ON
PEAFS3-14-0R2535R0-6R5-23-12-292MF**

PMI MODEL NUMBER: PEAFS3-14-0R2535R0-6R5-23-12-292MF IS AN 8 TO 18 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.



July 27, 2023

Designed By:

Engineering PMI

Drawings By:

Janice Escano

Tested and Reported By:

Alfredo Lopez

Typical Characteristics ON PEAFS3-14-0R2535R0-6R5-23-12-292MF

Product Feature

DESCRIPTION:

PMI MODEL NUMBER: PEAFS3-14-0R2535R0-6R5-23-12-292MF IS AN 8 TO 18 GHZ LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 8 TO 18 GHZ
 - GAIN:..... 13 dB $\pm$ 2 dB MAX
 - GAIN FLATNESS:..... $\pm$ 1 dB MAX
 - NOISE FIGURE:..... 4 dB TYP, 5 dB MAX
 - OP1dB:..... 24 dBm MIN
 - VSWR (INPUT/OUTPUT):..... 2.0:1 MAX
 - INPUT POWER:..... +25 dBm MAX
 - DC VOLTAGE SUPPLY:..... +10V FIXED @ Iq = 300 mA TYP*
 - CONNECTORS:..... SMA MALE (IN) FEMALE (OUT)
 - FINISH:..... GOLD PLATED
- *NO INTERNAL VOLTAGE REGULATION OR REVERSE PROTECTION

FEATURES:

UNCONDITIONAL STABILITY

AVAILABLE OPTIONS:

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

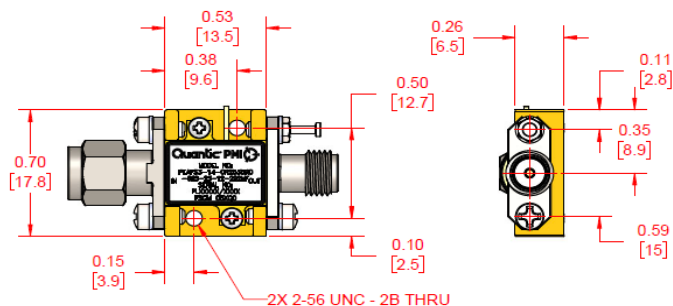
ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
..... -40°C TO +100°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

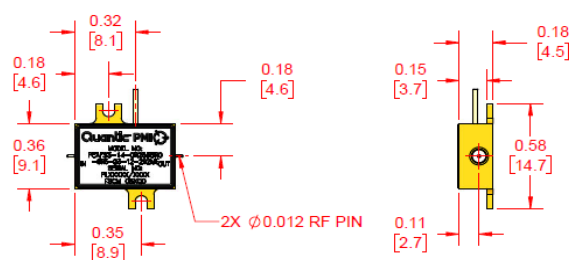
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	4/8/2003	
A2		ECN # 24-0198	7/24/2009	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DRAWN	J. ESCANO	4/8/2003	OUTLINE	
REVIEWED			PEAFS3-14-0R2535R0-6R5-23-12-292MF	
ISSUED			SIZE	REV
			B	A2
SCALE 2:1		SHEET 1 OF 1		

Typical Characteristics
ON
PEAFS3-14-0R2535R0-6R5-23-12-292MF

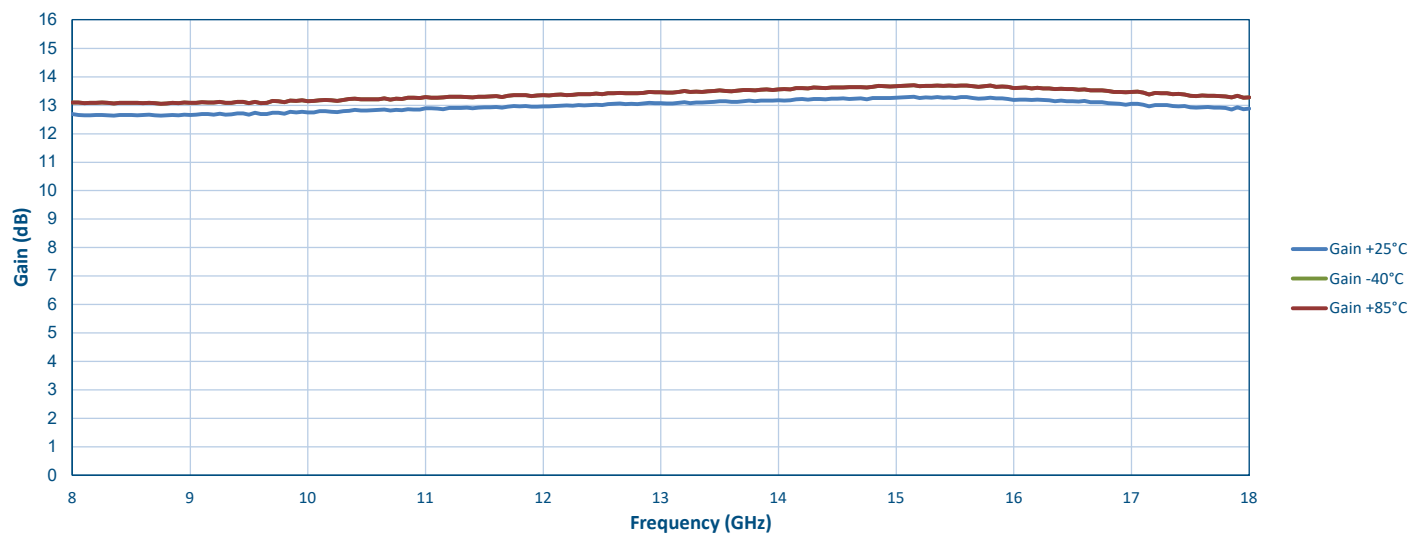
Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	-40°C	+85°C	
1	Frequency Range:	8 to 18 GHz	8 to 18 GHz	8 to 18 GHz	8 to 18 GHz	
2	Gain:	13 dB $\pm$ 2 dB Max	13.29 dB Max.	13.71 dB Max.	13.71 dB Max.	
			12.64 dB Min.	12.64 dB Min.	13.06 dB Min.	
			See Graph	See Graph	See Graph	
3	Gain Flatness:	$\pm$ 1 dB Max.	$\pm$ 0.33 dB See Graph	$\pm$ 0.33 dB See Graph	$\pm$ 0.33 dB See Graph	
4	Noise Figure:	4 dB Typ., 5 dB Max.	3.81 dB	3.58 dB	4.48 dB	
			See Graph	See Graph	See Graph	
5	OP1dB:	24 dBm Min.	28.85 dBm Max.	29.1 dBm Max.	28.58 dBm Max.	
			27.5 dBm Min.	27.04 dBm Min.	27.33 dBm Min.	
			See Graph	See Graph	See Graph	
6	VSWR: (Input/Output)	2.0:1 Max.	1.75 :1 (In)	1.71 :1 (In)	1.71 :1 (In)	
			1.34 :1 (Out)	1.3 :1 (Out)	1.3 :1 (Out)	
			See Graph	See Graph	See Graph	
7	Input Power:	+25 dBm CW Max.	Pass +25 dBm CW)	Pass +25 dBm CW)	Pass +25 dBm CW)	
8	DC Supply:	+10V @ Iq = 300 mA Typ.*	+10 VDC @ 259 mA	+10 VDC @ 247 mA	+10 VDC @ 273 mA	

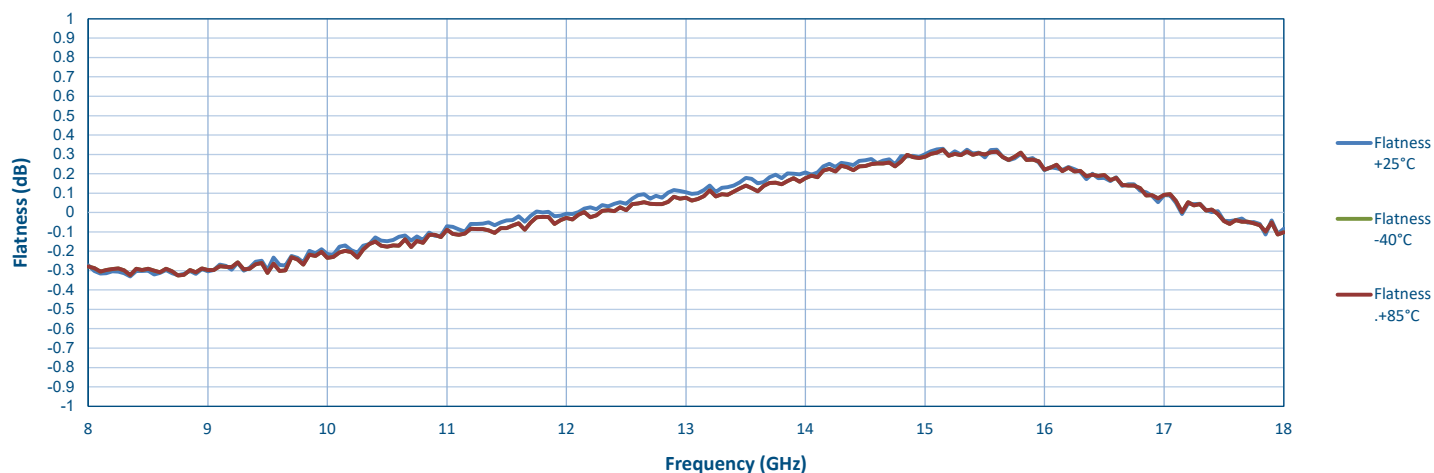
*No Internal Voltage Regulation or Reverse Protection

Typical Characteristics ON PEAFS3-14-0R2535R0-6R5-23-12-292MF

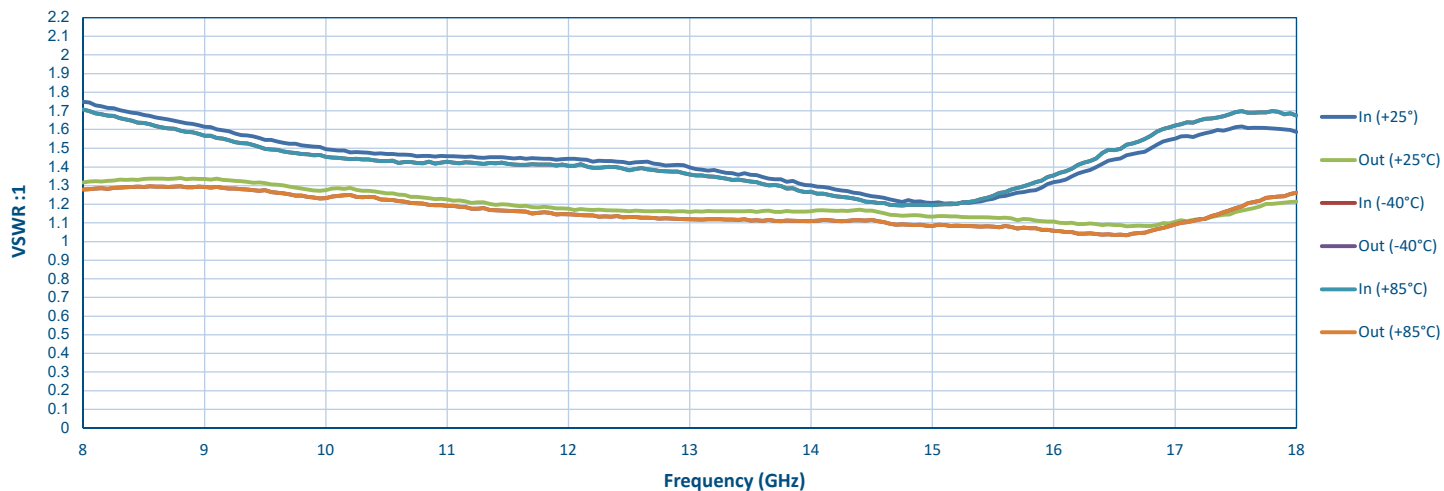
Gain



Gain Flatness

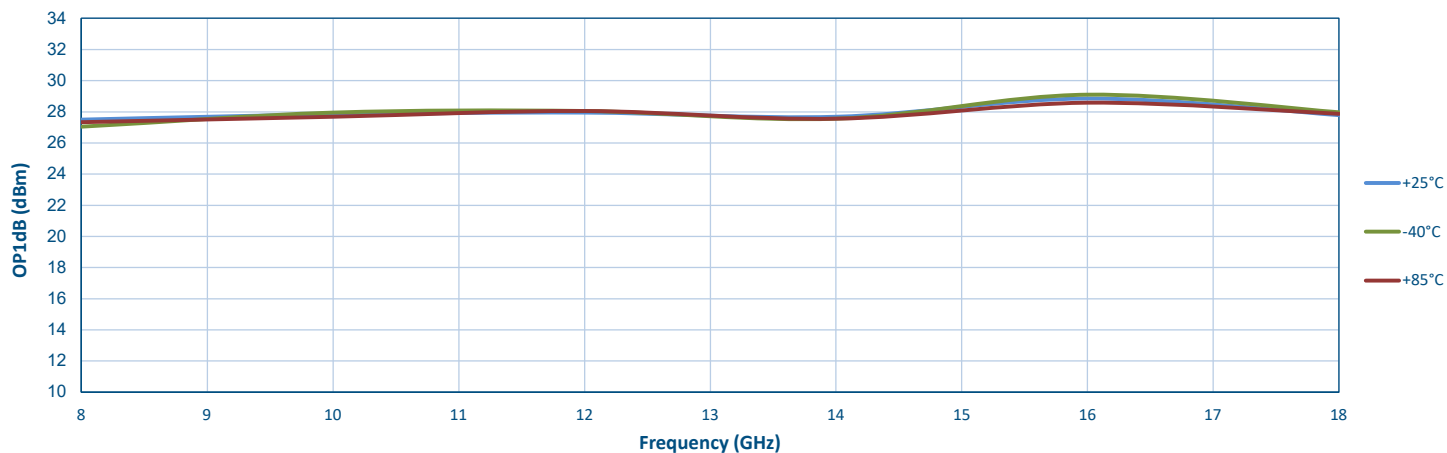


VSWR

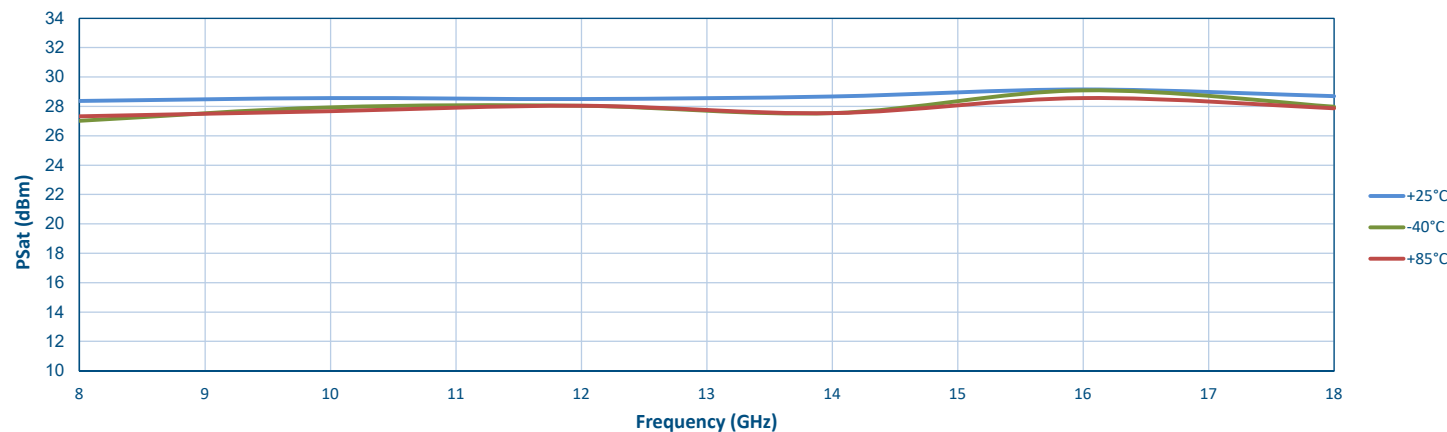


Typical Characteristics ON PEAFS3-14-0R2535R0-6R5-23-12-292MF

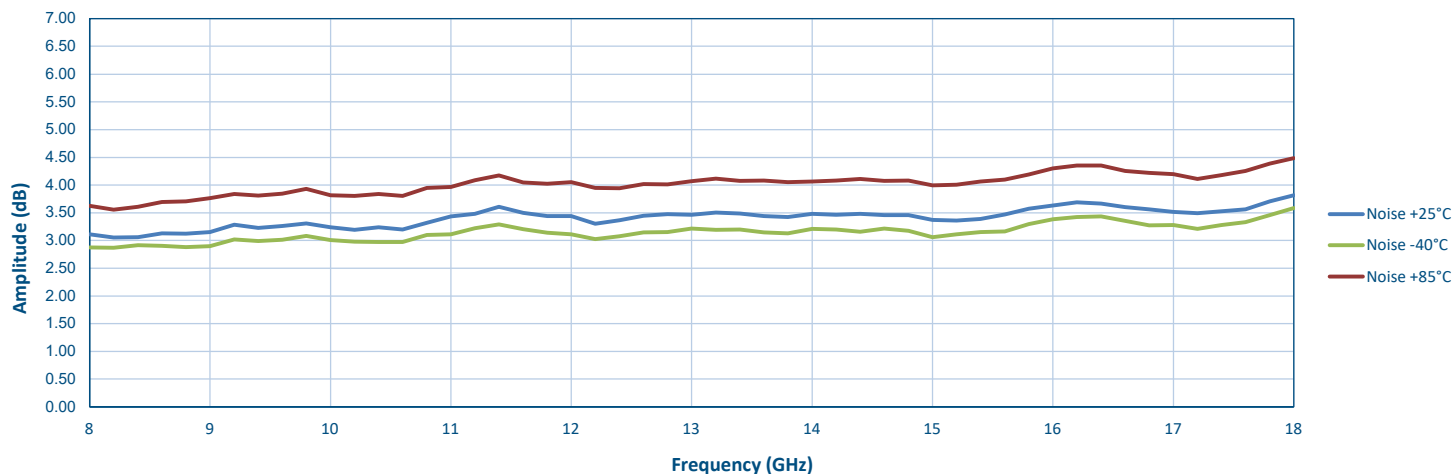
OP1dB



Psat

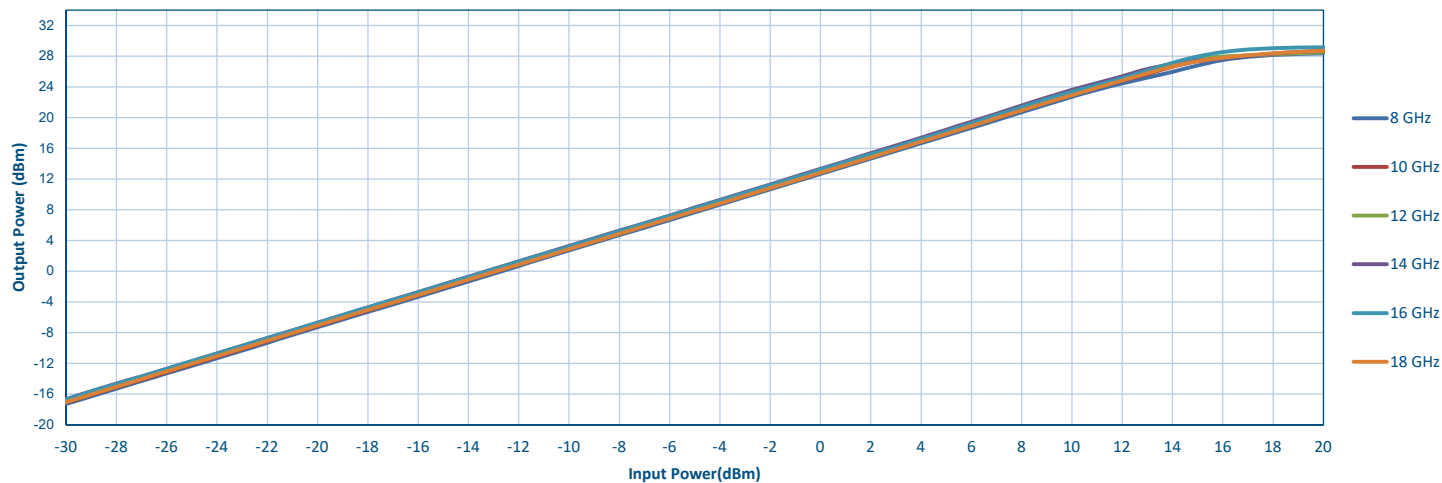


Noise Figure

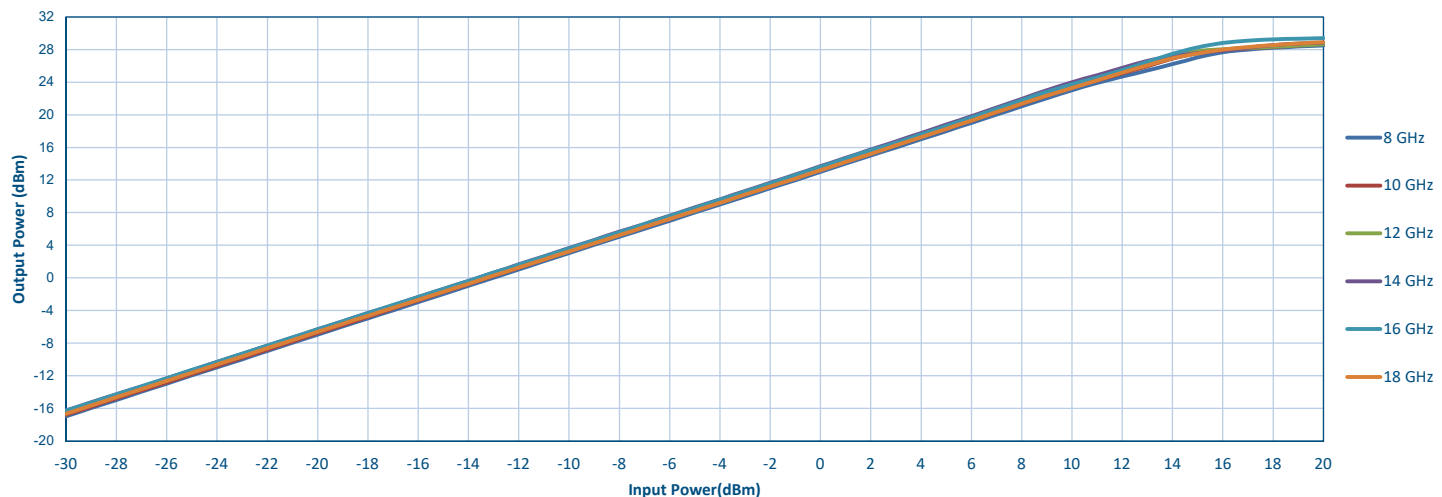


Typical Characteristics ON PEAFS3-14-0R2535R0-6R5-23-12-292MF

Input Power Vs Output Power (+25°C)



Input Power Vs Output Power (-40°C)



Input Power Vs Output Power (+85°C)

