TYPICAL CHARACTERISTICS
ON
PEC-25-500M40G-20-12-292FF-OPT125

Model Number PEC-25-500M40G-20-12-292FF-OPT125 is a 1.0 to 25 GHz low noise amplifier. This amplifier has a gain of 25 dB with ±2.5 dB maximum gain flatness.

March, 26 2019

Designed By: PMI Engineering
Tested By: Kevin Mansfield

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TYPICAL CHARACTERISTICS
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PEC-25-500M40G-20-12-292FF-OPT125

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Description:

Model Number PEC-25-500M40G-20-12-292FF-OPT125 is a 1.0 to 25.0 GHz low noise amplifier. This amplifier has a typical gain of 25 dB with a +/- 2.5 dB maximum gain flatness.

This model provides the following performance.

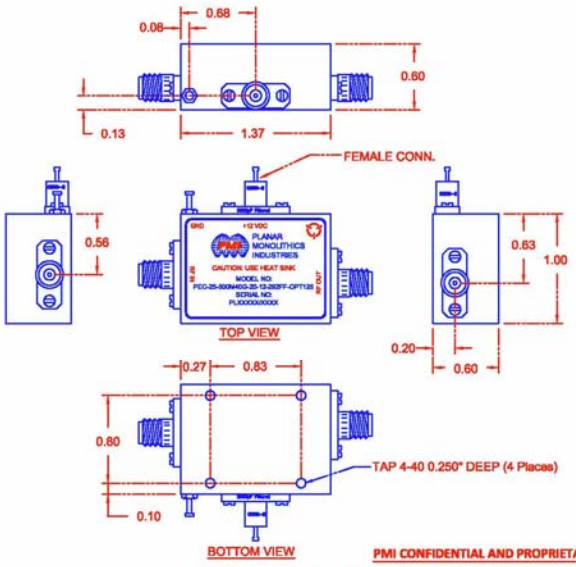
Specifications:

Frequency Range:	1.0 to 25.0 GHz
Gain:	25 dB Typ.
Gain Flatness:	+/- 2.5 dB Max.
Noise Figure:	5.5 dB Typ.
OP1dB:	+19 dBm TYP (1.0 TO 18.0 GHz) +17 dBm TYP (18.0 TO 25.0 GHz)
PSAT:	+23 dBm TYP (1.0 TO 18.0 GHz) +20 dBm TYP (18.0 TO 25.0 GHz)
Input Power Handling:	+17 dBm CW Max.
VSWR Input/Output:	2.0:1 / 2.5:1 Max.
DC Voltage Supply:	+12 to +15 VDC
DC Current Draw:	350 mA Nominal
Size:	1.37" (L) X 1.00" (W) X 0.60" (H)
Connectors:	2.92mm (F)

Environmental Ratings:

Temperature:	-55 to +85°C (Operating) -65 to +117°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.
Vibration:	MIL-STD-202F, METHOD 204D COND B.

Note: The above specifications may change over temperature.
Note: The above specifications are subject to change or revision.



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/13/18	

PMI CONFIDENTIAL AND PROPRIETARY

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

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
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WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN SY	7/14/18
REDRAWN YPU	7/19/18
ISSUED	

TITLE: OUTLINE DRAWING
PEC-25-500M40G-20-12-292FF-OPT125

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27035780	A1

SCALE N:S SHEET 1 OF 1

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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	1.0 GHz - 25 GHz	**1.0 GHz - 25 GHz**	
2	Gain:	25 dB Typ.	**27.3 dB Max. 25.3 dB Typ. 23.3 dB Min. See Plot**	
3	Gain Flatness:	±2.5 dB Max.	**±1.98 dB See Plot**	
4	Noise Figure:	5.5 dB Typ.	**4.7 dB See Plot**	
5	OP1dB:	+19 dBm Typ. (1.0-18 GHz) +17 dBm Typ. (18-25 GHz)	**+19 dBm (1.0-18 GHz) +18.3 dBm (18-25 GHz) See Plot**	
6	Psat:	+23 dBm Typ. (1.0-18 GHz) +20 dBm Typ. (18-25 GHz)	**+23.5 dBm (1.0-18 GHz) +22.2 dBm (18-25 GHz) See Plot**	
7	Max. CW RF Input:	+17 dBm CWl Max.	**+17 dBm CW**	
8	VSWR: (Input/Output)	2.0:1 / 2.5:1 Max.	**1.8:1 In 1.5:1 Out See Plot**	
9	DC Supply:	+12 to +15 VDC @ 350 mA Nominal	**314 mA**	

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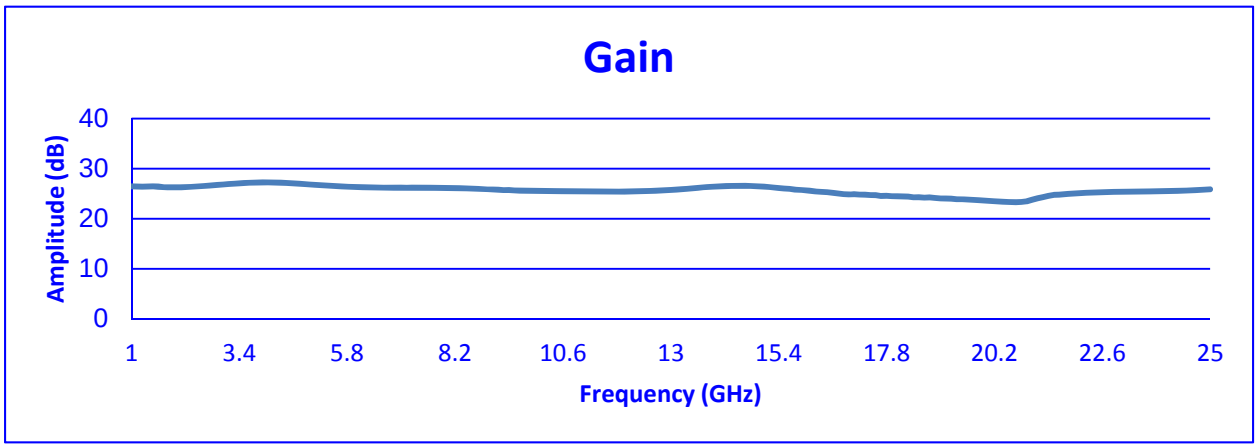

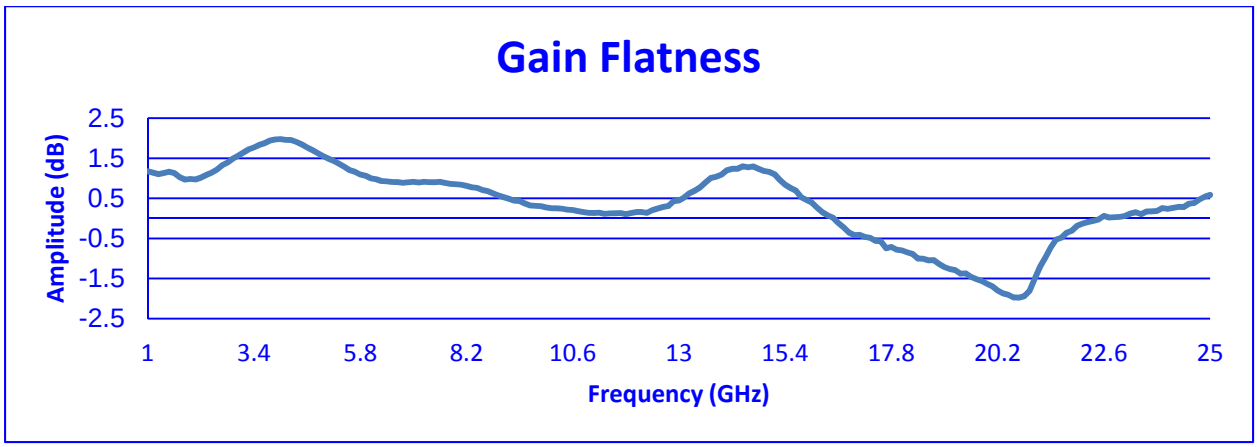

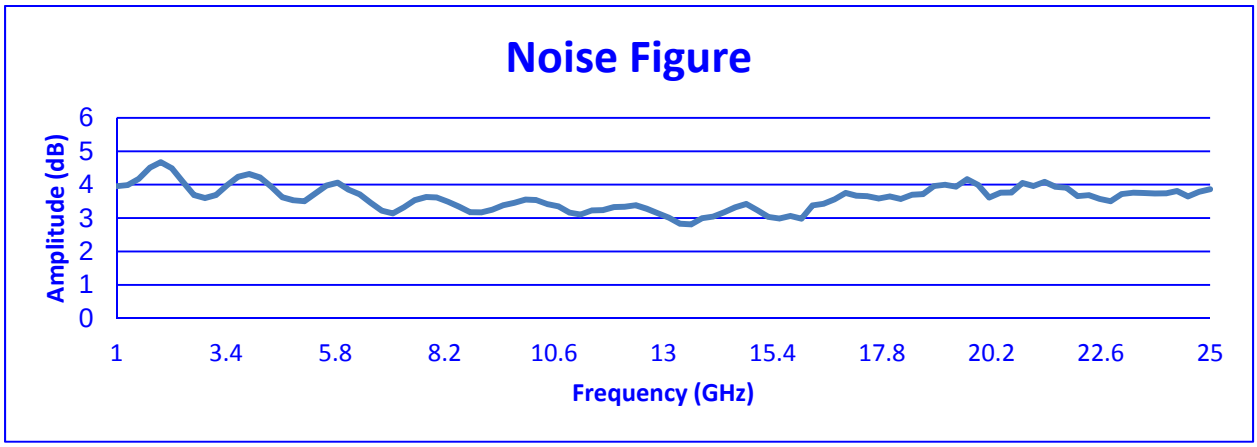

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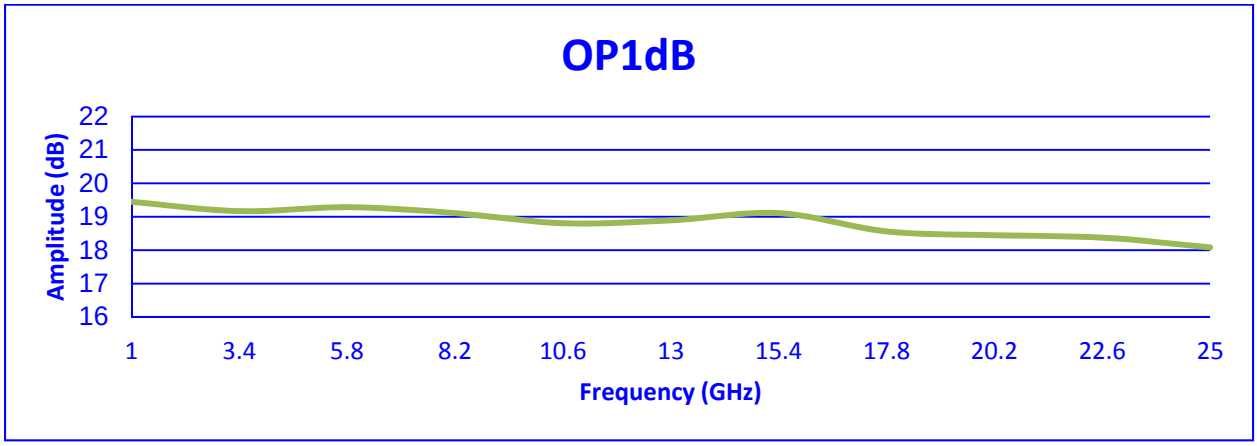

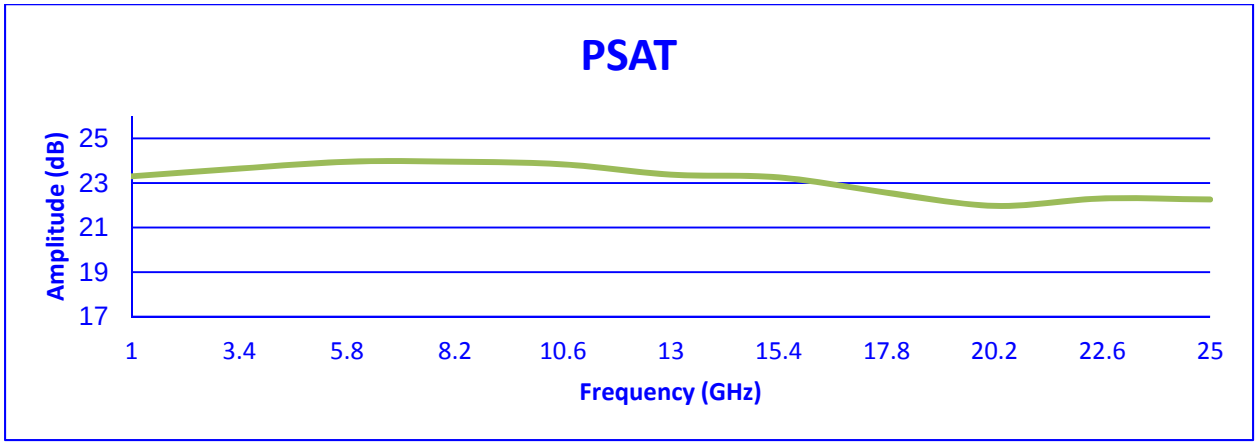

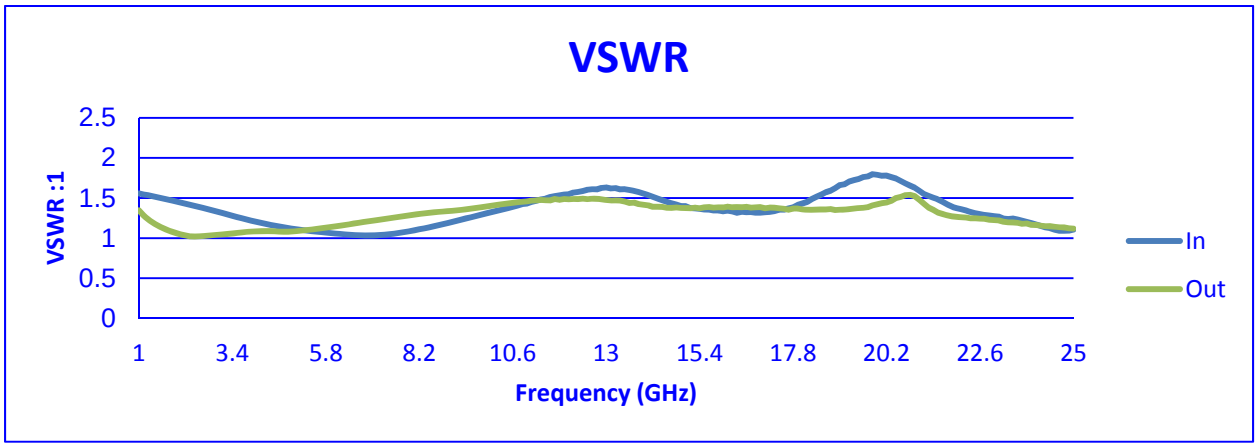

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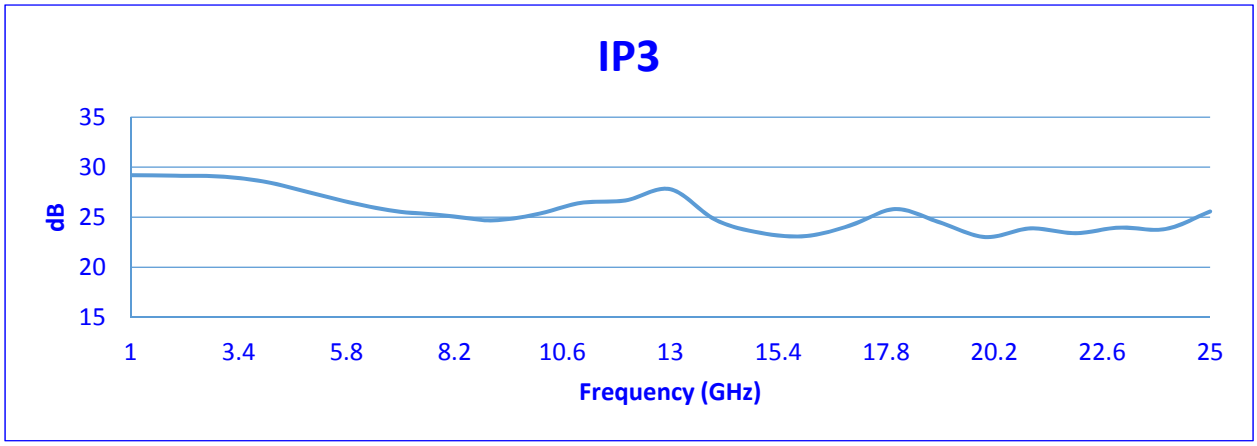

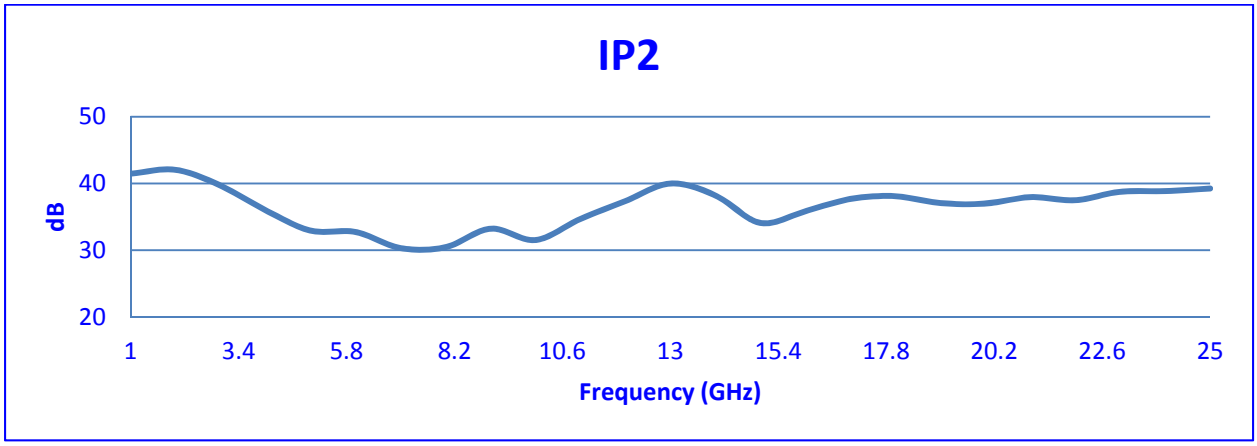

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