



**TYPICAL CHARACTERISTICS
ON
PEC-30-0R2520R0-5R0-22-12-SFF**

PMI Model Number: PEC-30-0R2520R0-5R0-22-12-SFF is a 0.25 to 20.0 GHz low noise amplifier. This amplifier is supplied in housing that can be used as a SMA connectorized or a surface mount component.



January 5, 2023

Designed By: PMI Engineering

Tested & Reported By:
Hugo Gonzales

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Email: sales@pmi-rf.com



TYPICAL CHARACTERISTICS ON PEC-30-0R2520R0-5R0-22-12-SFF

Description:

PMI Model Number: PEC-30-0R2520R0-5R0-22-12-SFF is a 0.25 to 20.0 GHz low noise amplifier. This amplifier is supplied in housing that can be used as a SMA connectorized or a surface mount component.

Specifications:

Frequency Range: 0.25 to 20.0 GHz
 Gain: 26.5 dB Typ
 Gain Flatness: @ any Operating Temp
 ±1.5 dB Max
 Noise Figure: 5.5 dB Max (*)
 OP1dB: 22 dBm Min
 VSWR Input/Output: 1.7:1 Max
 DC Supply: +12 to +15VDC @ 400mA Typ
 Connectors In/Out: SMA Female
 Finish: Gold Plated
 (*) Noise figure only valid above 1 GHz

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:

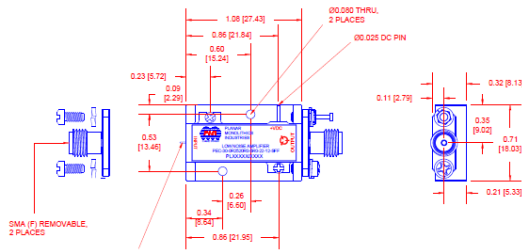
Temperature: -54°C to + 85°C (Operating)
 -57°C to +100°C (Storage)
 Humidity: MIL-STD-202F, METHOD 103B COND B.
 Shock: MIL-STD-202F, METHOD 213B COND B.
 Altitude: MIL-STD-202F, METHOD 105C COND B.
 Temperature Cycle: MIL-STD-202F, METHOD 107D COND A

Note: The above specifications are subject to change or revision.
 Specifications will vary over operating temperature.

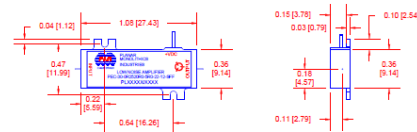
ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 XXX .000
 XXXX .0010

ZONE	REV	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	12/21/17	
B1		ECN # 18-0157	07/17/18	
C1		ECN # 18-0162	07/24/18	
C2		ECN # 19-0005	01/08/19	
C3		ECN # 23-0007	01/05/23	

PEC HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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 ISO 9001 CERTIFIED



APPROVALS	DATE	TITLE
DESIGN: JPH	11/21/17	PRODUCT FEATURE
ISSUED: JPH	12/21/17	PEC-30-0R2520R0-5R0-22-12-SFF
DATE: 12/21/17	REV: A	FORM NO: 05X00
SCALE: N/S	DWG NO: 27033840	REV: C3
	SHEET: 1 OF 1	

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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.25 to 20.0 GHz	0.25 to 20.0 GHz	
2	Gain:	26.5dB Typ	26.2dB Typ. See Plot	
3	Gain Flatness:	±1.5dB Max	±0.695 dB See Plot	
4	Noise Figure:	5.5dB Max (*)	5.0dB See Plot	
5	OP1dB:	22dBm Min	24.05dBm See Graph	
6	VSWR Input/Output:	1.7:1 Max	Input: 1.46:1 Output: 1.56:1 See Plot	
7	DC Supply:	+12 to +15VDC @ 400mA Typ	VDC @ 372mA	

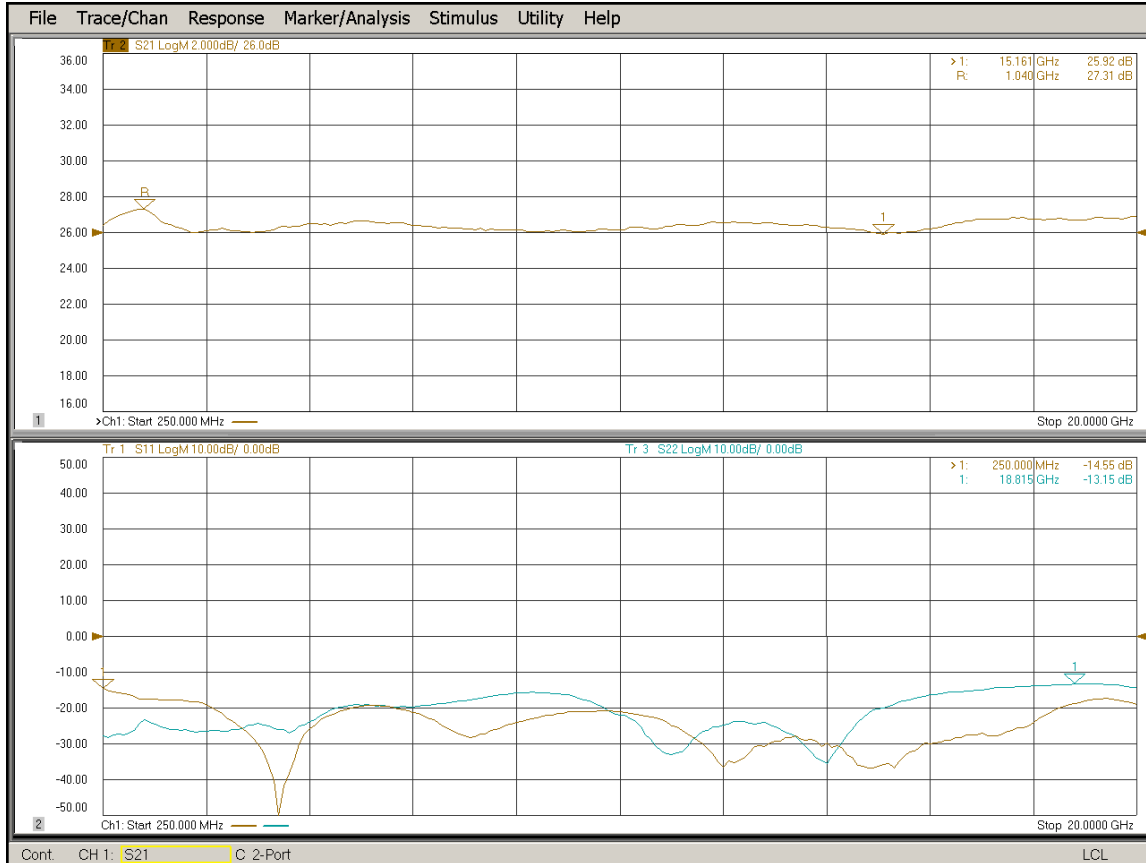
(*) Noise figure only valid above 500 MHz

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**PNA PLOT
GAIN & VSWR**

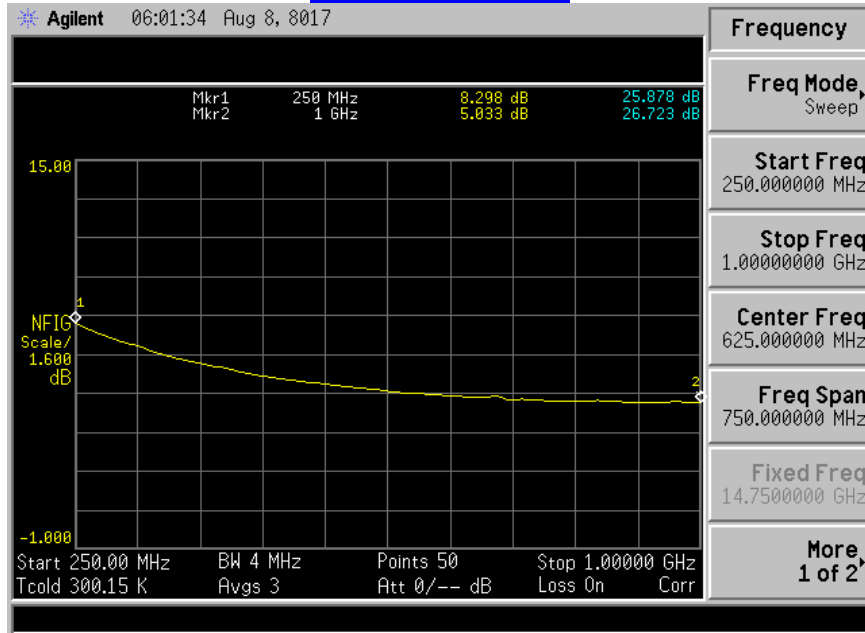


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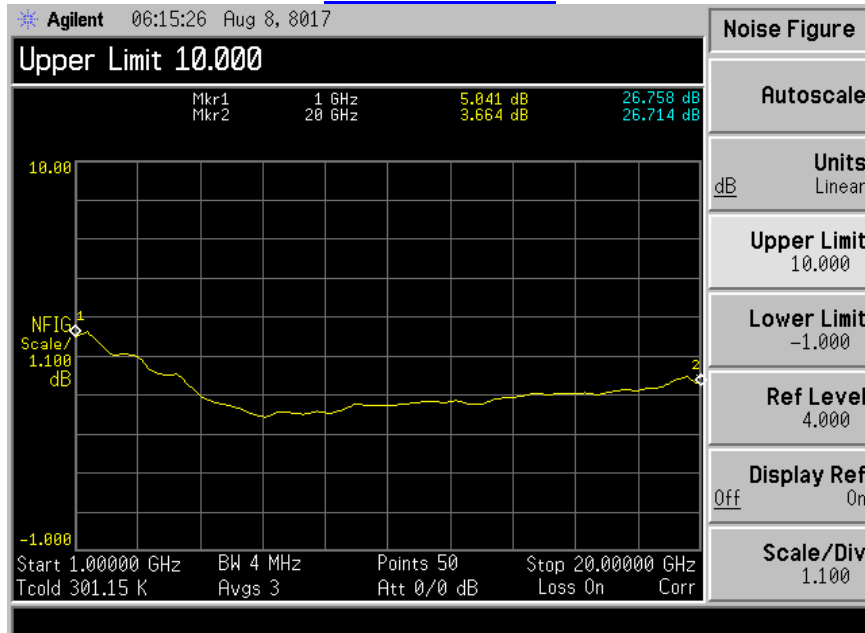


**TYPICAL CHARACTERISTICS
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**NOISE PLOTS
250MHz To 1 GHz**



1Ghz To 20Ghz

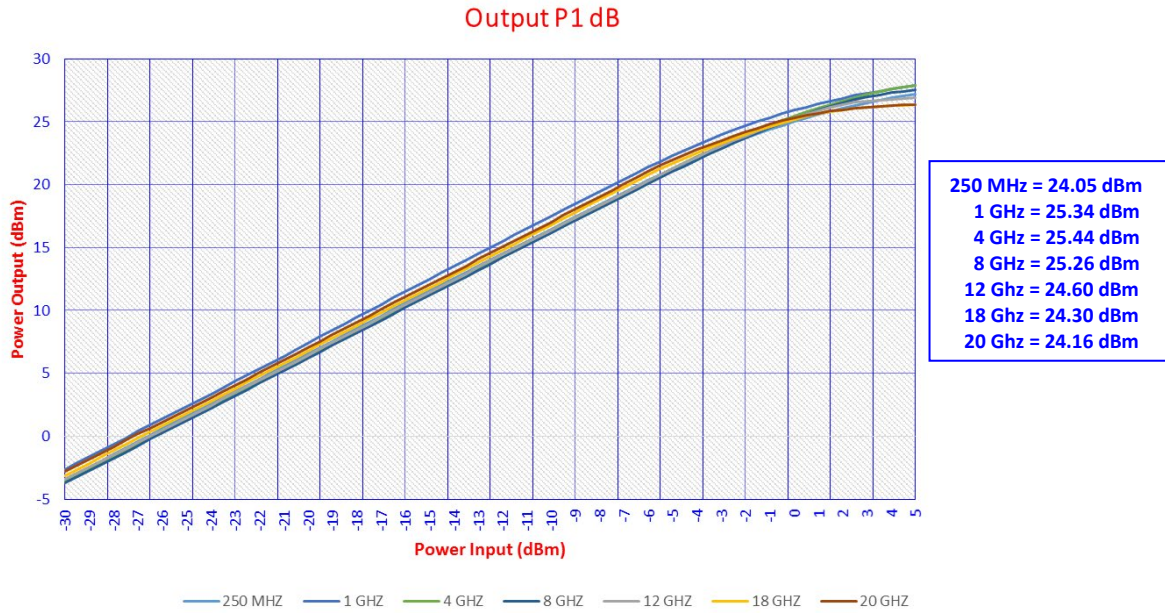


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OP1dB Graph



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