

SUMMARY TEST DATA ON PEC-30-10M20-SFF

Customer:

Tested By: FCC

SO No:

Temperature: +25° C

Model No: PEC-30-10M20-SFF

Date: 3/7/2025

Serial No: PL51692/2510

Drawing No: 27644480

REV: A4

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Frequency Range:	10 MHz to 20.0 GHz	10 MHz to 20.0 GHz	PMI QA3
2	Gain:	26 dB Min. (10 MHz to 18 GHz) 28 dB Min. (18 GHz to 20 GHz)	26.99db / 28.16 db	
3	Gain Flatness:	±2 dB MAX. (10 MHz to 18 GHz) ±2.5 dB Typ., ±2.75 dB Max. (18 GHz to 20 GHz)	±1.16 dB ±0.21 dB See Plot	
4	Noise Figure:	4.5 dB Max. (20 MHz to 0.5 GHz) 3.5 dB Max. (0.5 GHz to 18 GHz) 4.0 dB Max. (18 GHz to 20 GHz)	2 dB 2.8 dB 3 dB See Plot	
5	OP1dB:	+13.5 dBm Min. (10 MHz to 18 GHz) +12 dBm Min. (18 GHz to 20 GHz)	+17 dBm +15.3 dBm See Plot	
7	VSWR Input	2:1 Max. (10 MHz to 18 GHz) 2.2:1 Max. (18 GHz to 20 GHz)	2.03:1 / 1.77:1	
8	VSWR Output:	2.1:1 Max. (10 MHz to 18 GHz) 2.4:1 Max. (18 GHz to 20 GHz)	2.05:1 / 1.79:1	
9	DC Supply:	+12 to +15 VDC @ 170 mA MAX.	143 mA	

6	P _{sat}	+15 dBm Min. (10 MHz to 18 GHz) +13 dBm Min. (18 GHz to 20 GHz)	+17.7 dBm +17.1 dBm See Plot	PMI QA3
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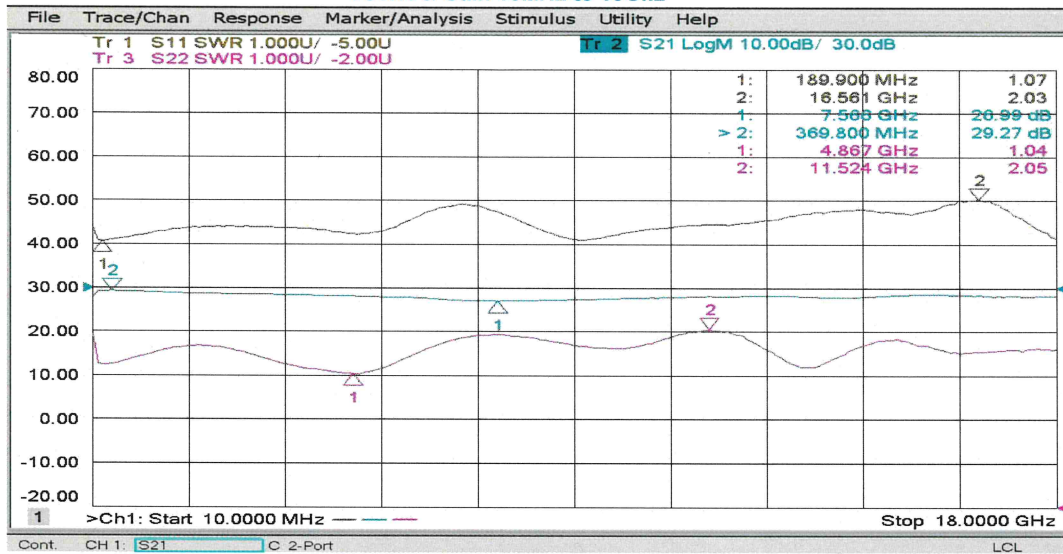
QA/QC Approval:

Date:

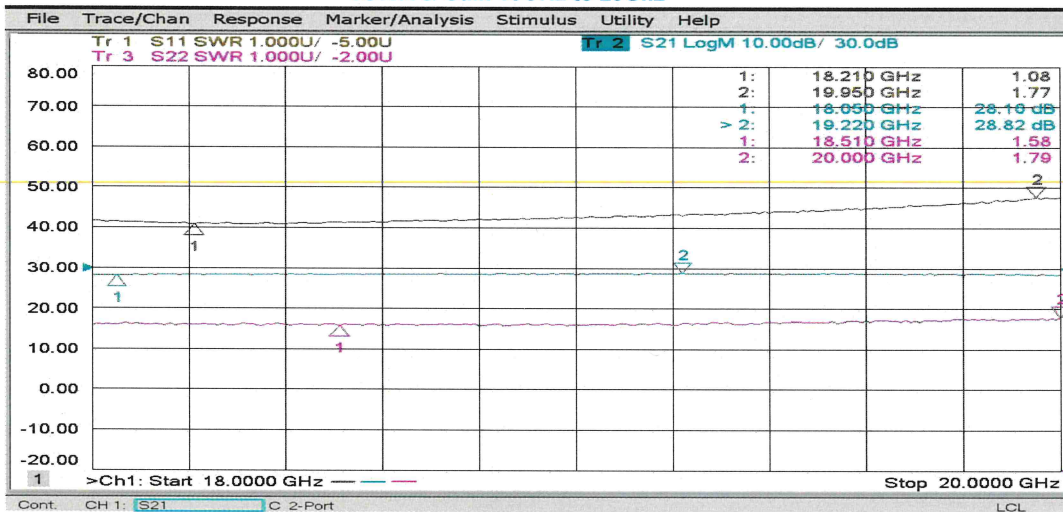
7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

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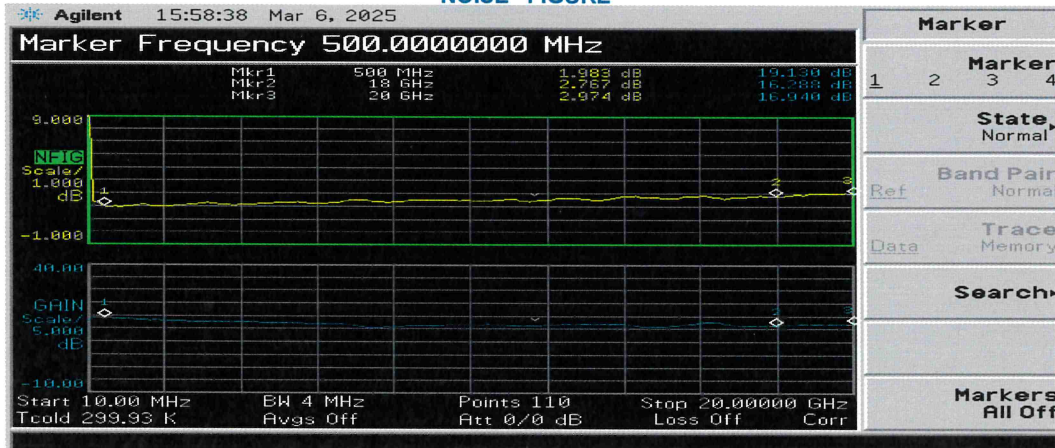
VSWR & Gain 10MHz to 18Ghz



VSWR & Gain 18GHz to 20Ghz



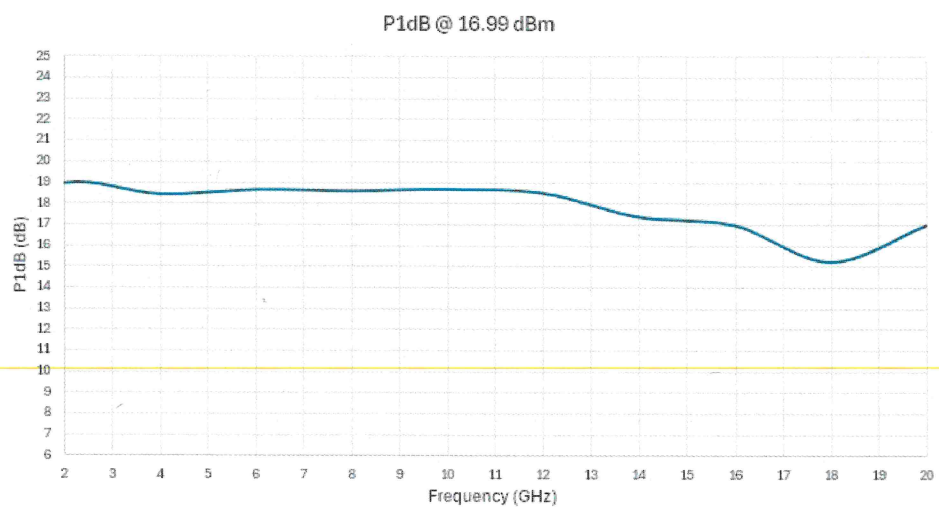
NOISE FIGURE



OP1db

Freq	P1dB	Psat
GHz	dBm	dBm
0.01	17.02	18.31
2	18.94	19.51
4	18.42	19.30
6	18.64	19.17
8	18.59	19.17
10	18.66	19.16
12	18.49	18.94
14	17.38	17.94
16	16.99	17.72
18	15.26	17.1406
20	16.99	17.9812

P1dB @ 16.99 dBm



Psat @ 17.72 dBm

