SUMMARY TEST DATA
ON
PTB-42-1G40G-12-292FF-DC12

Customer: [redacted]
SO No: [redacted]
Model No: PTB-42-1G40G-12-292FF-DC12
Serial No: PL52917/2519
Part No:

Tested By: Jim Hopson
Temperature: 25 Degrees C
Date: 5/8/2025
Drawing No: 27606212 **REV:** A2

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA
1	Frequency Range:	1.0 GHz - 40 GHz	**1.0 GHz - 40 GHz**	QA
2	Gain:	40 dB Typ.	**40.12 dB Min. 35.7 dB Max. See Plot**	
3	Gain Flatness:	±2.5 dB Typ.	**+/- 2.7 dB See Plot"**	
4	Noise Figure:	5.0 dB Typ. MID-BAND	**5.0 dB typ**	
5	OP1dB:	+22 dBm Typ. (1-18 GHz) +18 dBm Typ. (18-40 GHz)	**18.5 dbm / 15.3dbm See Plot**	
6	VSWR: (Input/Output)	2.5:1 Typ.	**1.82:1 / 1.70:1**	
7	Maximum RF Input:	+15 dBm	**+15 dBm**	
8	AC Voltage Supply:	120 VAC	**120 VAC**	
9	DC Voltage Supply: (External)	+12 VDC	**+12 VDC @ 440 mA**	

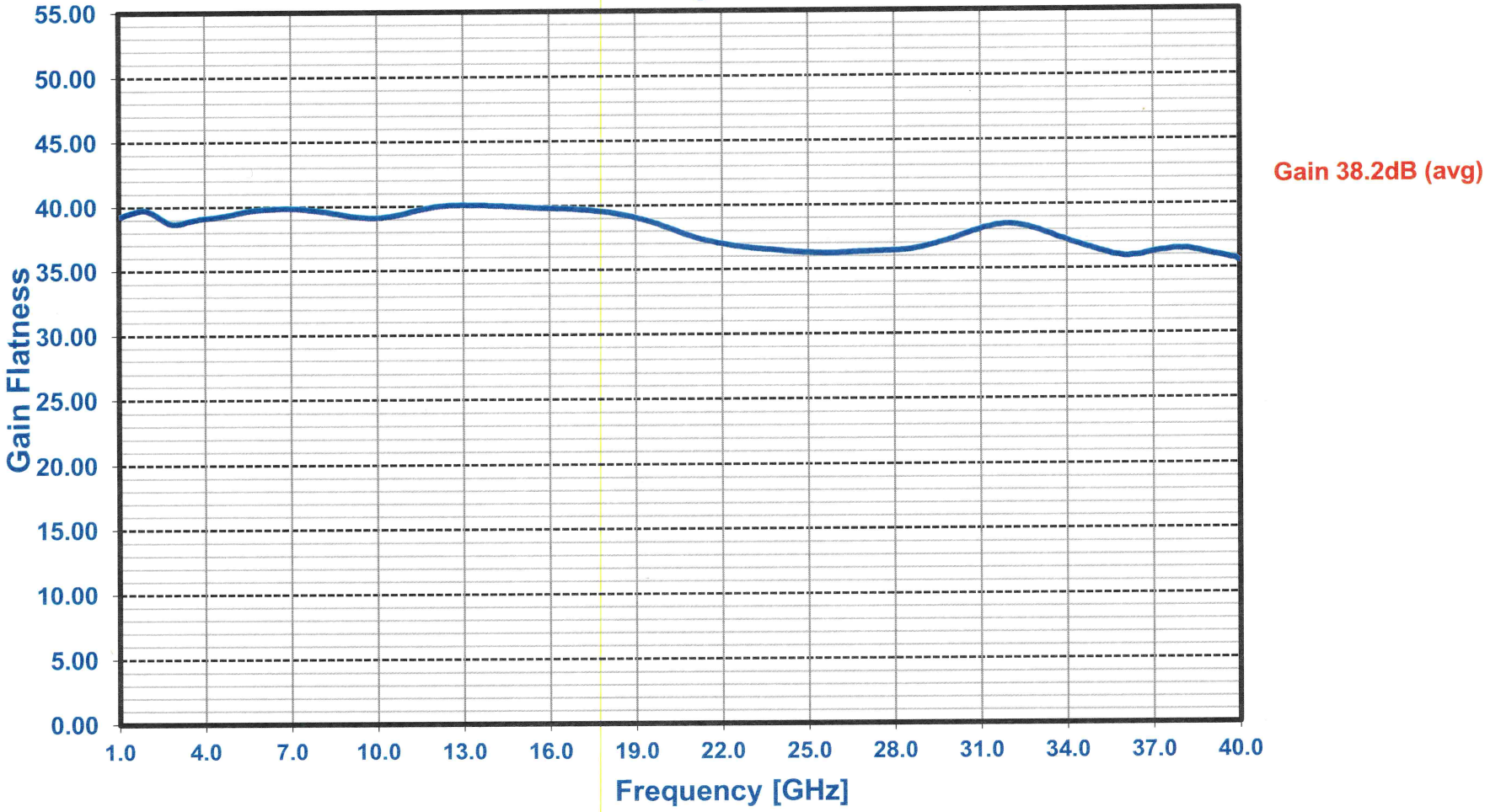
QA/QC Approval: K. Klaus **Date:** 5-8-25

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

Model Number: PTB-42-1G40G-12-292FF-DC12
Serial Number: PL52917

Temperature: +25C

Small Signal Gain



Gain 38.2dB (avg)

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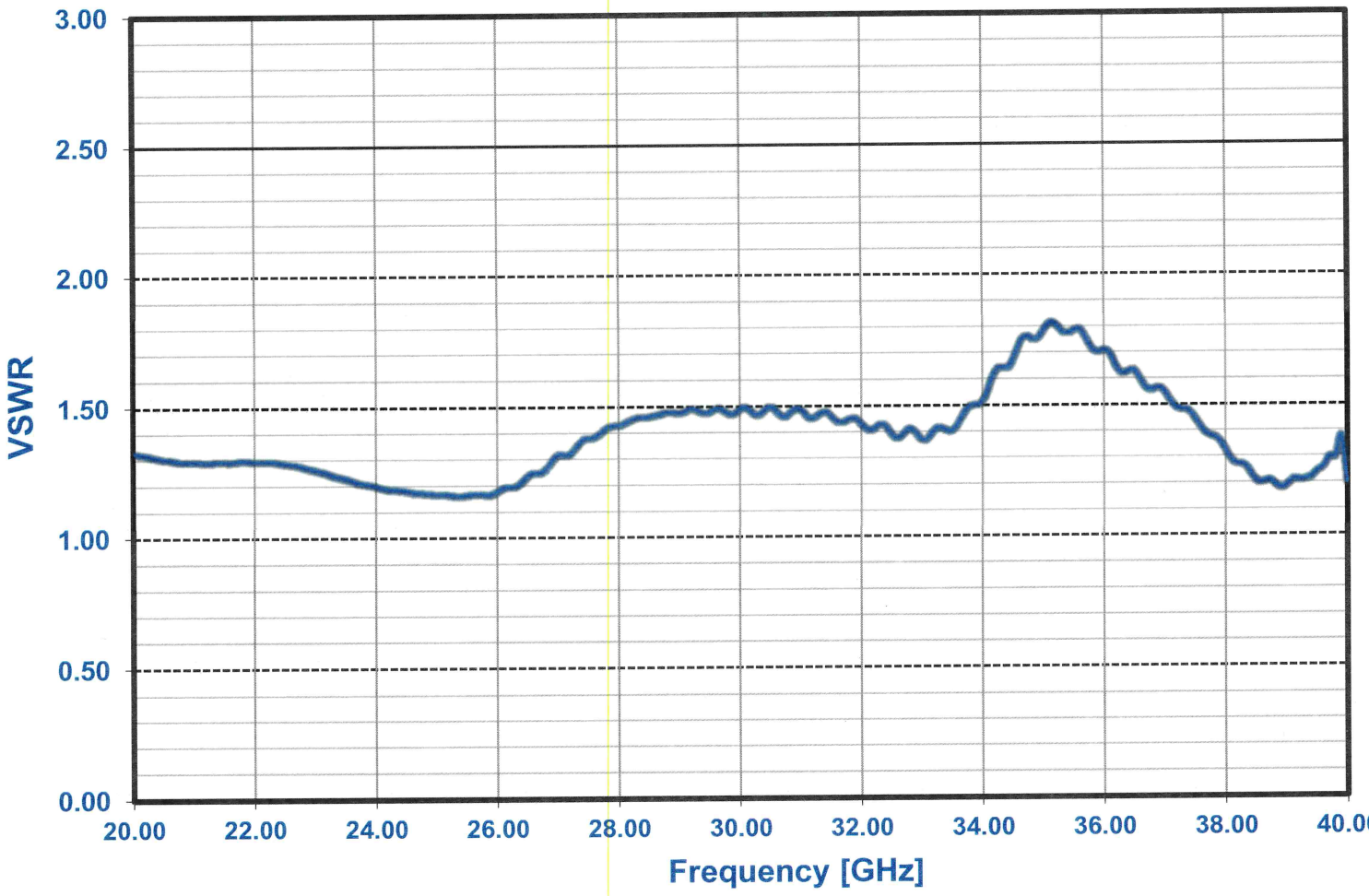
VSWR GRAPH



Input VSWR 1.82:1 Max

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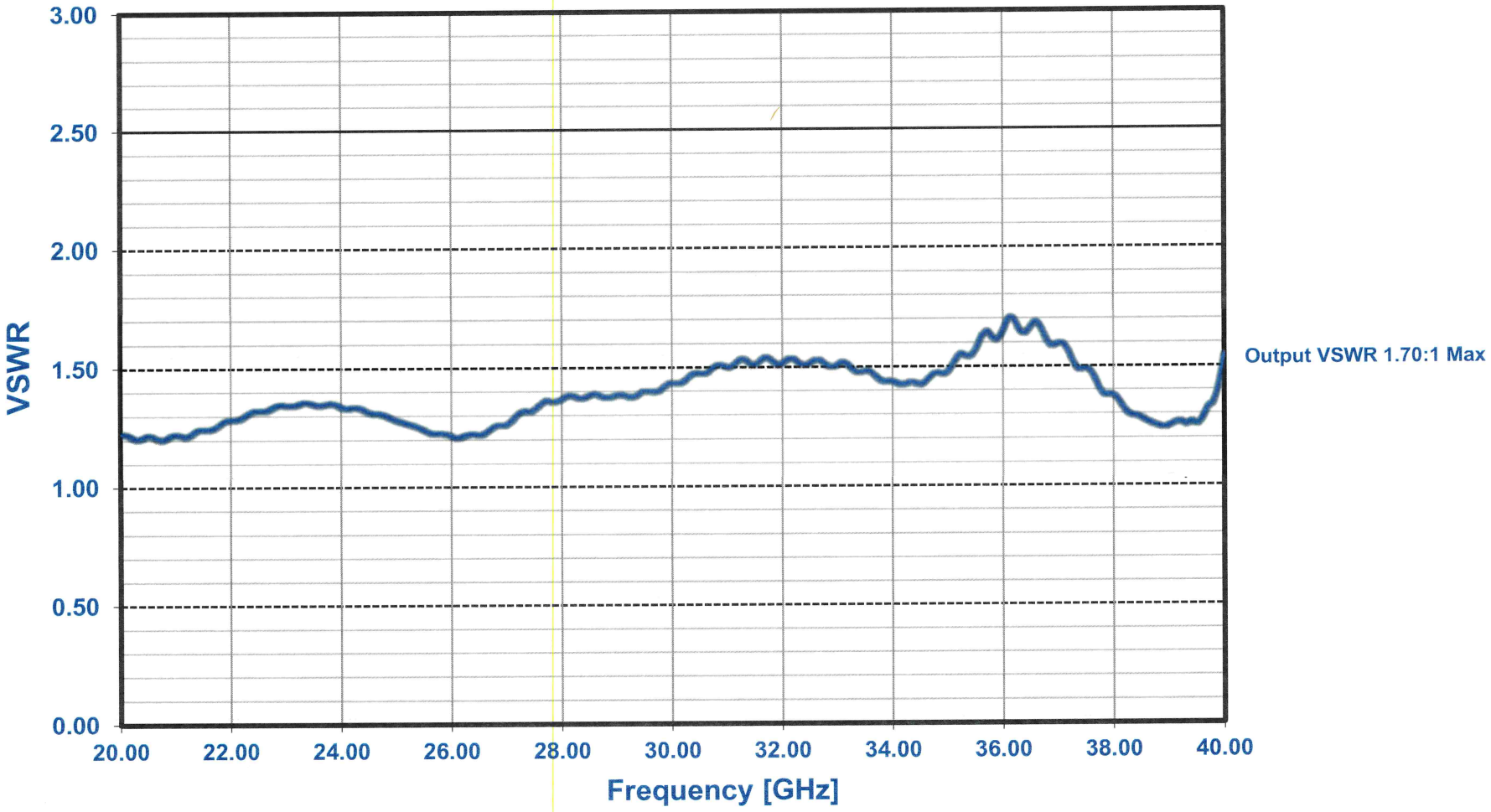
VSWR GRAPH



PTB-42-1GM40G-12-292FF-DC12

SN PL52917

FREQ GHz	1dB COMPRESSION		P-SAT	
1	18.80	dBm	23.10	dBm
2.5	18.70	dBm	22.80	dBm
4.5	19.00	dBm	22.40	dBm
6.5	19.40	dBm	22.00	dBm
8.5	19.00	dBm	21.50	dBm
10.5	19.00	dBm	21.40	dBm
12.5	19.00	dBm	20.90	dBm
14.5	18.10	dBm	20.60	dBm
16.5	17.40	dBm	19.80	dBm
18	17.10	dBm	19.40	dBm
20.5	16.80	dBm	19.40	dBm
22.5	16.60	dBm	18.60	dBm
24.5	16.40	dBm	18.50	dBm
26.5	16.20	dBm	18.20	dBm
28.5	15.90	dBm	18.20	dBm
30.5	15.20	dBm	17.90	dBm
32.5	15.50	dBm	18.10	dBm
34.5	13.80	dBm	17.30	dBm
36.5	13.80	dBm	18.00	dBm
38.5	12.70	dBm	17.30	dBm
40	13.2	dBm	16.90	dBm