



**SUMMARY TEST DATA
ON
PEC-42-500M40G-20-12-292FF-BG**

Customer: _____
SO No: _____
Model No: PEC-42-500M40G-20-12-292FF-BG
Serial No: PL46222/2421

Tested By: Jim Hopson
Temperature: +25°C
Date: 5/22/2024
Drawing No: 26936000 REV: C1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC PMI QA3
1	Frequency Range:	500 MHz - 40 GHz	500 MHz - 40 GHz	
2	Gain:	40 dB Typ. 36 dB Min.	+42.1 dB Max. +36.9 dB Min. See Plot	
3	Gain Flatness:	±2.5 dB Typ.	±2.6 dB See Plot	
4	*Noise Figure:	5.5 dB Typ.	5.5 dB TYP	
5	OP1dB:	+19 dBm Typ. (0.5-18 GHz) +17 dBm Typ. (18-40 GHz)	+18.6 dBm Avg. (0.5-18 GHz) +16.1 dBm Avg. (18-40 GHz) See Data	
6	Psat:	+23 dBm Typ. (0.5-18 GHz) +20 dBm Typ. (18-40 GHz)	+22.1 dBm Avg. (0.5-18 GHz) +19.8 dBm Avg. (18-40 GHz) See Data	
7	VSWR: (Input/Output)	2.0:1 / 2.5:1 Max.	1.89:1 In 1.84:1 Out See Plot	
8	Input Power Handling:	+17 dBm CW Max.	Pass	
9	DC Supply:	+12 to +15 VDC @ 450 mA Typ.	+12 to +15 VDC @ 380 mA	

*Up to 26.5 GHz

QA/QC Approval: _____

A. Zimmerman

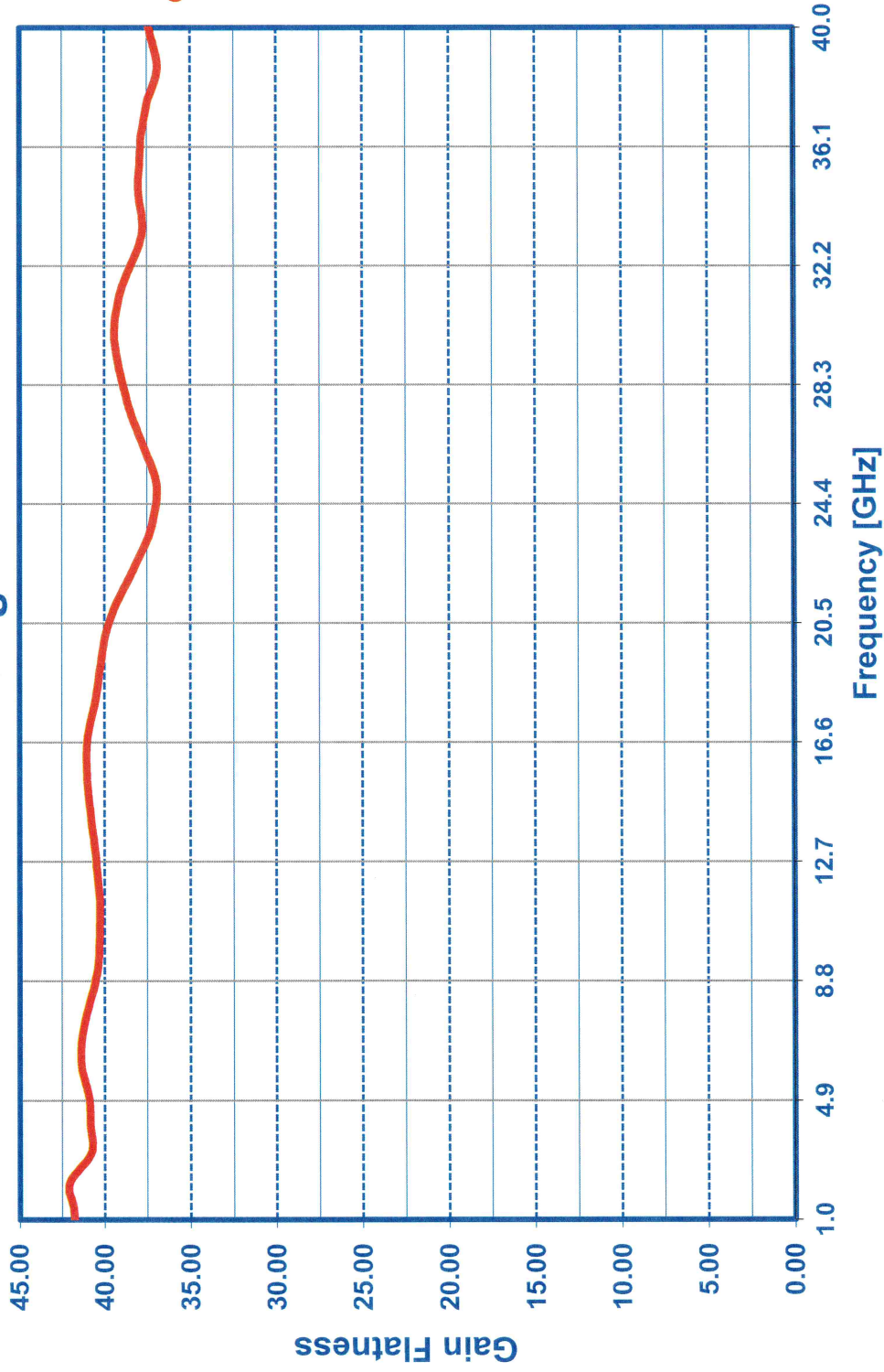
Date: _____

5-23-24

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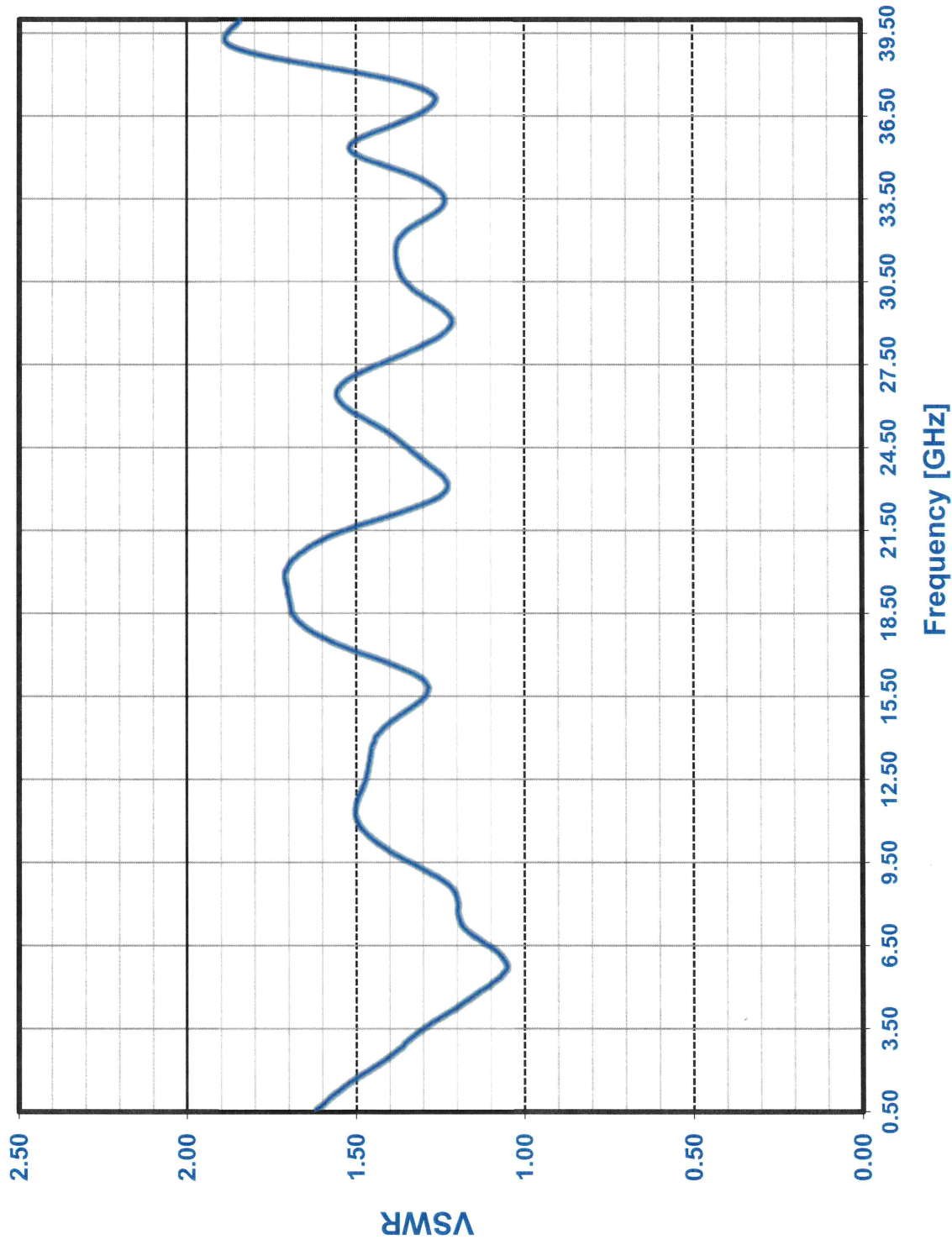
Small Signal Gain



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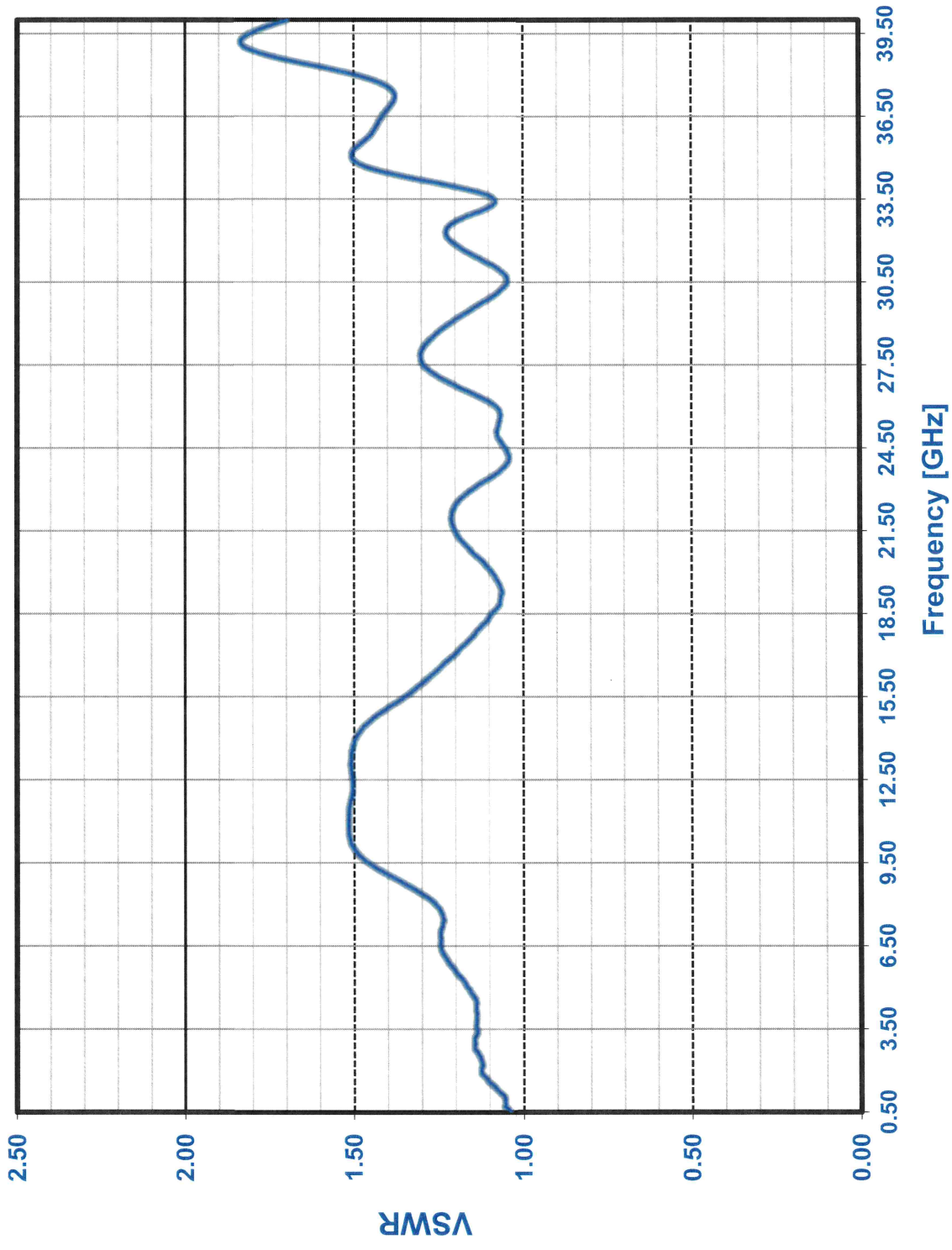
INPUT VSWR 1.89:1



Model Number: PEC-42-500M40G-20-12-292MM
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OUTPUT VSWR 1.84:1



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SN# PL46222

Power

FREQ	1dB COMPRESSION		P-SAT	
0.5	19.50	dBm	23.00	dBm
2.5	19.00	dBm	22.70	dBm
4.5	18.60	dBm	22.50	dBm
6.5	18.90	dBm	22.50	dBm
8.5	18.70	dBm	22.30	dBm
10.5	18.50	dBm	22.20	dBm
12.5	18.30	dBm	22.00	dBm
14.5	18.60	dBm	21.70	dBm
16.5	18.10	dBm	21.30	dBm
18	17.50	dBm	21.00	dBm
20.5	17.80	dBm	21.00	dBm
22.5	17.30	dBm	20.50	dBm
24.5	17.50	dBm	20.40	dBm
26.5	17.10	dBm	20.10	dBm
28.5	16.80	dBm	20.00	dBm
30.5	16.30	dBm	19.90	dBm
32.5	15.60	dBm	19.60	dBm
34.5	15.20	dBm	19.30	dBm
36.5	13.80	dBm	19.00	dBm
38.5	14.50	dBm	18.70	dBm
40	13.7	dBm	18.50	dBm