



SUMMARY TEST DATA ON PEC-40/25-218-21-12-SFF-TTLVG

Customer: _____
SO No: _____
Model No: PEC-40/25-218-21-12-SFF-TTLVG
Serial Pair: PL18506/1605

Tested By: FCC
Temperature: -25, +25 and +75 Degrees C
Date: 4/2/2025
Drawing No: 27605737 REV: B1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Frequency Range:	2 - 18 GHz	2 - 18 GHz	PMI QC
2	Gain @ -25°C: Max. Gain @ Max Gain Position: Min. Gain @ Max Gain Position: Max. Gain @ Min Gain Position: Min. Gain @ Min Gain Position:	+42 dB ±2.0 dB Max. +42 dB ±2.0 dB Max. +27 dB ±2.0 dB Max. +27 dB ±2.0 dB Max.	42.41dB Max.High 40.17dB Min.High 26.32dB Max. Low 23.03dB Min Low See Plot	
3	Gain @ +25°C: Max. Gain @ Max Gain Position: Min. Gain @ Max Gain Position: Max. Gain @ Min Gain Position: Min. Gain @ Min Gain Position:	+40 dB ±2.0 dB Max. +40 dB ±2.0 dB Max. +25 dB ±2.0 dB Max. +25 dB ±2.0 dB Max.	42.10dB Max.High 40.00 dB Min. High 26.22dB Max. Low 23.60 dB Min.Low	
4	Gain @ +75°C: Max. Gain @ Max Gain Position: Min. Gain @ Max Gain Position: Max. Gain @ Min Gain Position: Min. Gain @ Min Gain Position:	+37 dB ±2.0 dB Max. +37 dB ±2.0 dB Max. +22 dB ±2.0 dB Max. +22 dB ±2.0 dB Max.	+41.8 dB Max. High +39.3 dB Min. High +25.8 dB Max. Low +22.5 dB Min. Low See Plot	
5	Pout @ 1 dB Compression @ -25°C Max. Gain Position Min. Gain Position	+21 dBm Min. +20 dBm Min.	+23.5 dBm High +21.1 dBm Low See Plot	
6	Pout @ 1 dB Compression @ +25°C Max. Gain Position Min. Gain Position	+21 dBm Min. +20 dBm Min.	+24 dBm High +22 dBm Low See Plot	
7	Pout @ 1 dB Compression @ +75°C Max. Gain Position Min. Gain Position	+20 dBm Min. +20 dBm Min.	+24.5 dBm High +22.7 dBm Low See Plot	
8	Saturated Output Power (Both Gains) Over Operating Temperature Range:	+26dBm. Max.	<+26dBm	
9	Noise @ -25°C Max. Gain Position Min. Gain Position	+3.8 dB Max. +6.0 dB Max.	+2.6 dB High +4.4 dB Low See Plot	
10	Noise @ +25°C Max. Gain Position Min. Gain Position	+4.5 dB Max. +7.0 dB Max.	+2.8 dB High +4.6 dB Low See Plot	
11	Noise @ +75°C Max. Gain Position Min. Gain Position	+5.0 dB Max. +8.0 dB Max.	+3.1 dB High +4.8 dB Low See Plot	



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12	VSWR In/Out:	2.0:1 Max	+1.8:1 In +1.5:1 Out See Plot	PMI QAS
13	Input/Output Impedance:	50 Ω Nominal	50 Ω See Typical Characteristics	
14	Input Power: (Without Damage)	+20 dBm CW Max.	+20 dBm Pass	
15	In-Band Harmonics: @ or below the 1 dB Compression Point	-10dBc Min.	>-10 dBc See Typical Characteristics	
16	Spurious Output Signal @ Any Signal Level Up To The Max Input Level:		dBc	
17	Pulse Rise Time: with Input Signals up to 20 dBm	<5 ns	<5 ns See Typical Characteristics	
18	Pulse Overshoot: with Input Signals up to 20 dBm	<0.5 dB	<0.5 dB See Typical Characteristics	
19	Pulse Droop: with Pulses up to 250 us in Duration Input Signals up to -20 dBm	<2.0 dB	<2.0 dB See Typical Characteristics	
20	Pulse Recovery Time: with Pulses up to 250 us in Duration Input Signals up to -20 dBm	15 ns	<15 ns See Typical Characteristics	
21	Gain Switching Time:	<500 ns	<500 ns See Typical Characteristics	
22	Gain Switch Control:	TTL High "1" - Max. Gain TTL Low "0" - Min. Gain	Pass	
23	DC Supply:	780 mA Max. @ +12 V $\pm 5\%$ Max. Gain Position 610 mA Max. @ +12 V $\pm 5\%$ Min. Gain Position	440.2 mA Max. Gain Position 440.2 mA Min. Gain Position	

QA/QC Approval:

K. K. [Signature]

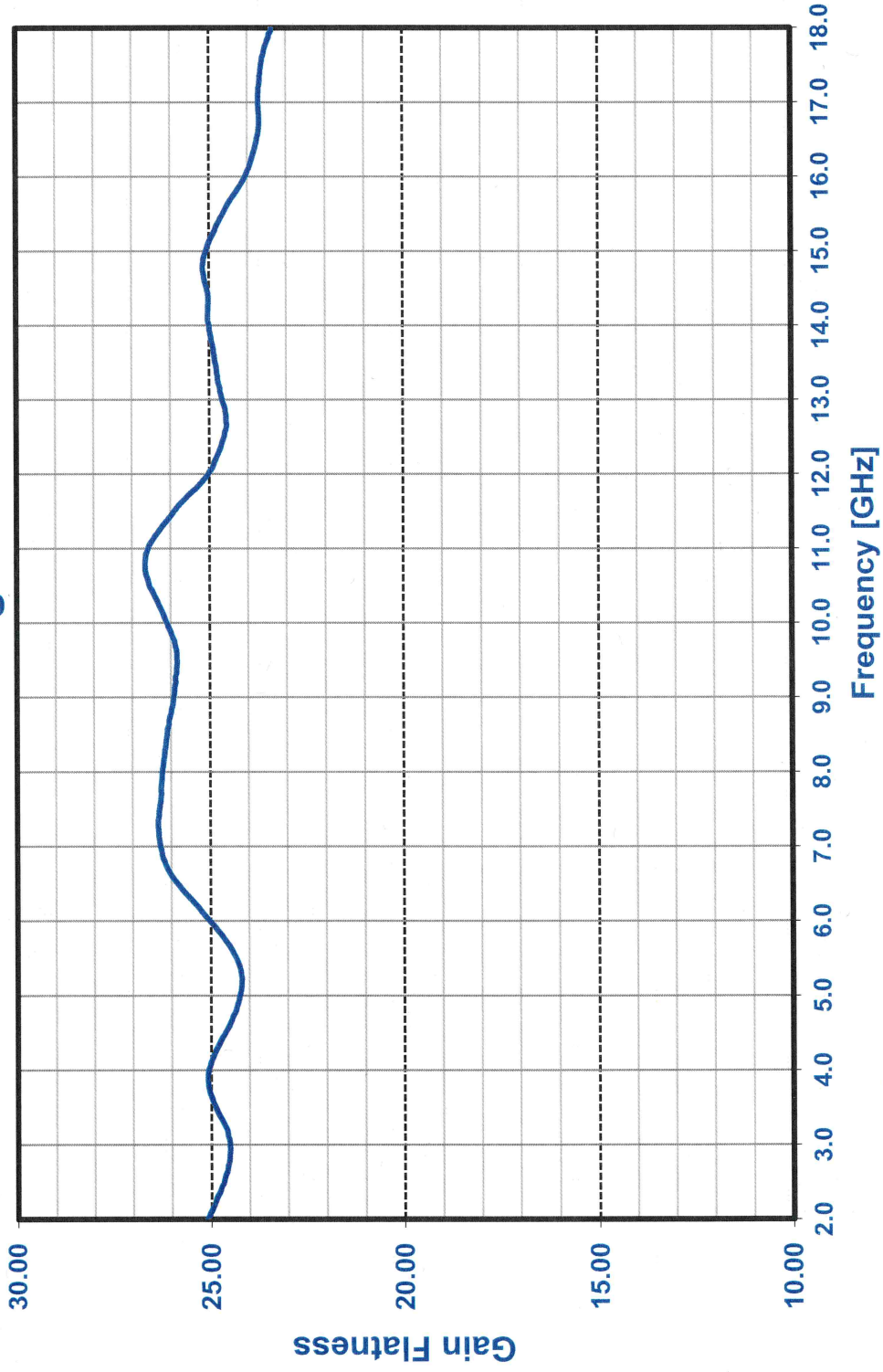
Date:

4.2.25

Model Number: PEC-40-25-218-21-12-SFF-TTLVG
Serial Number: PL18506

Temperature: +25C

Small Signal Gain

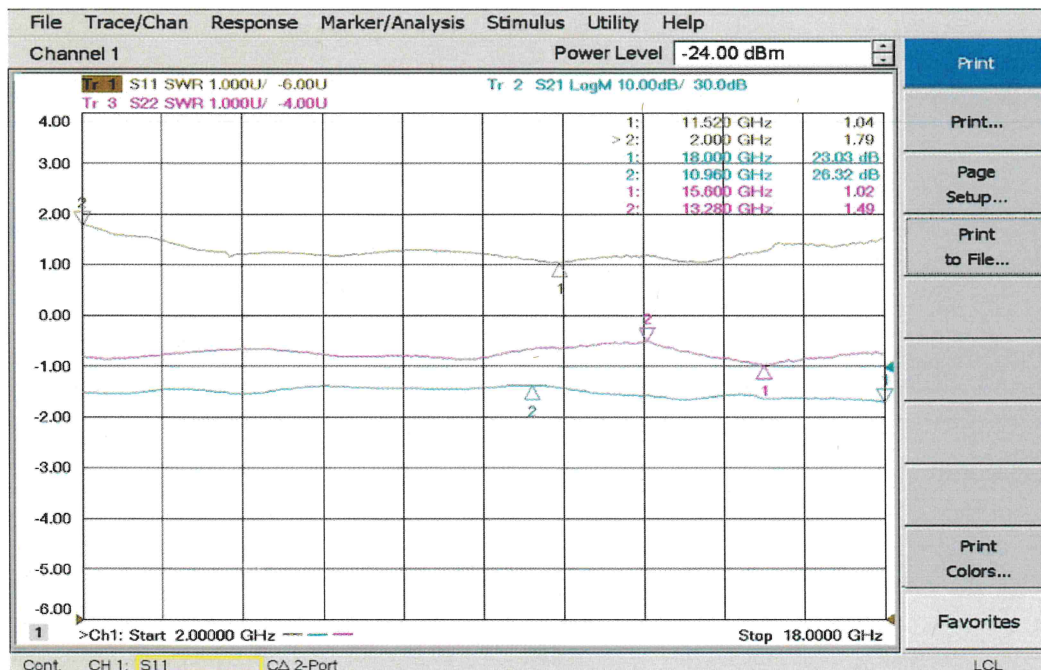




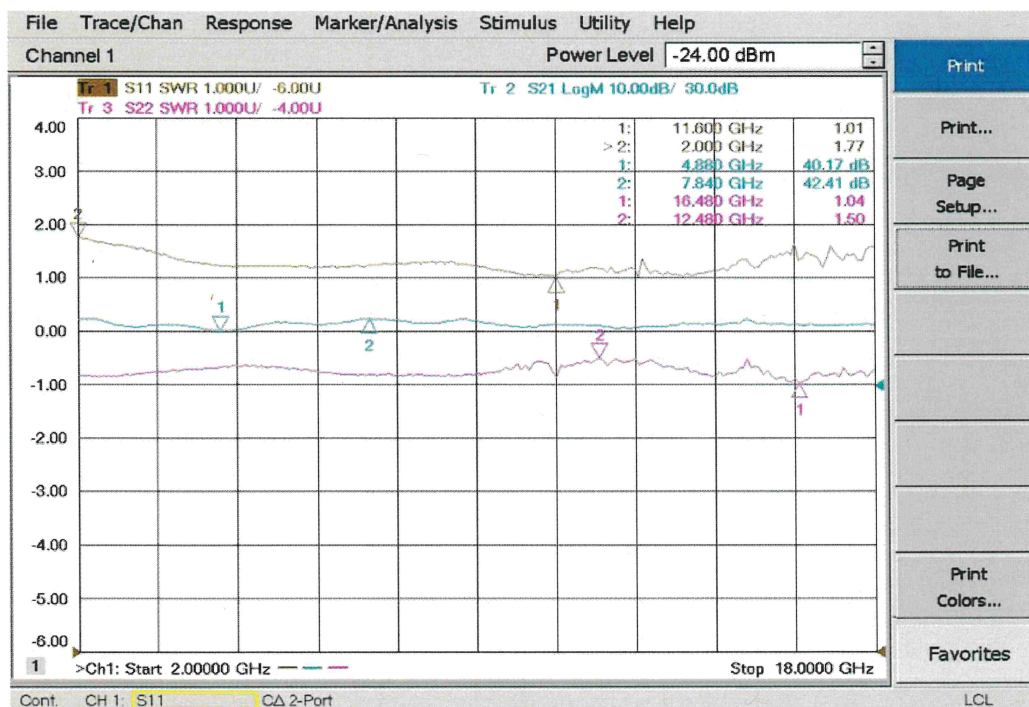
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Low Gain Position @ -25 C



High Gain Position @ -25 C

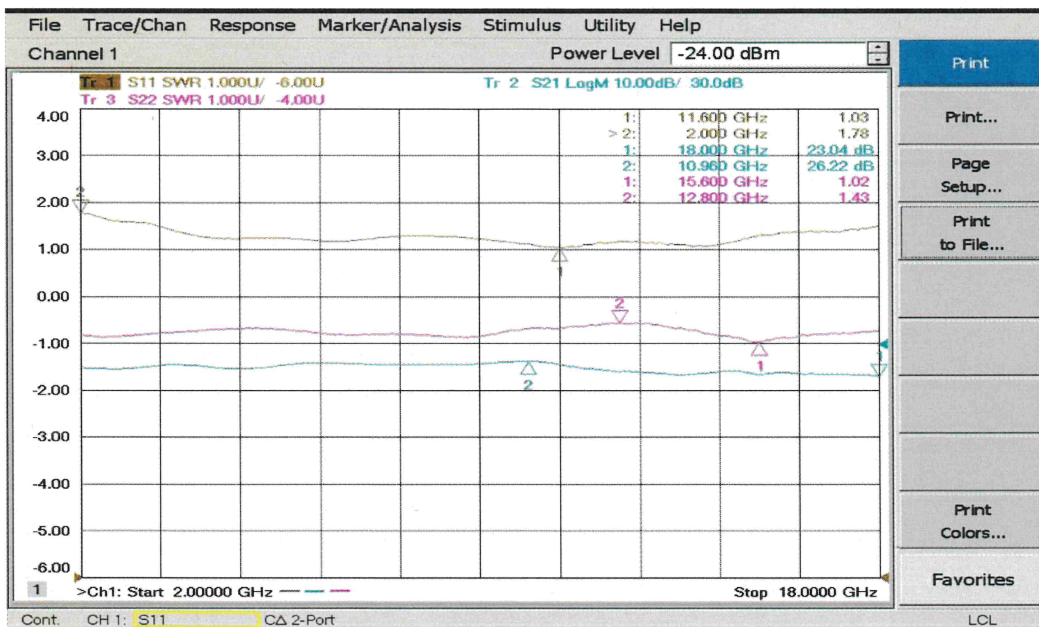




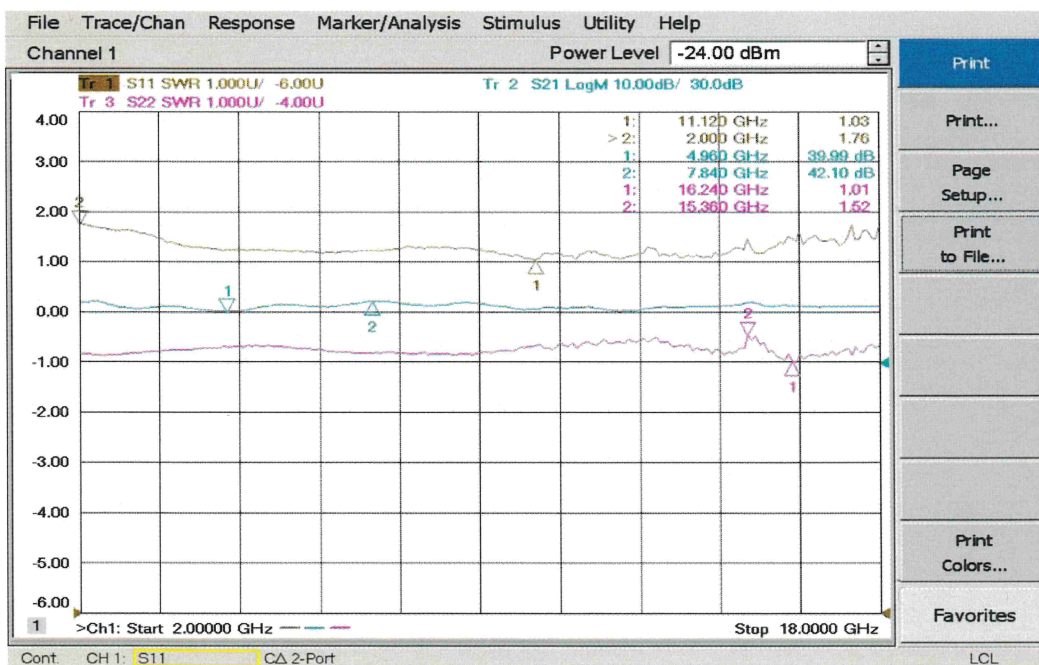
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PL18506/1605

Low Gain Position @ +25 C



High Gain Position @ +25 C

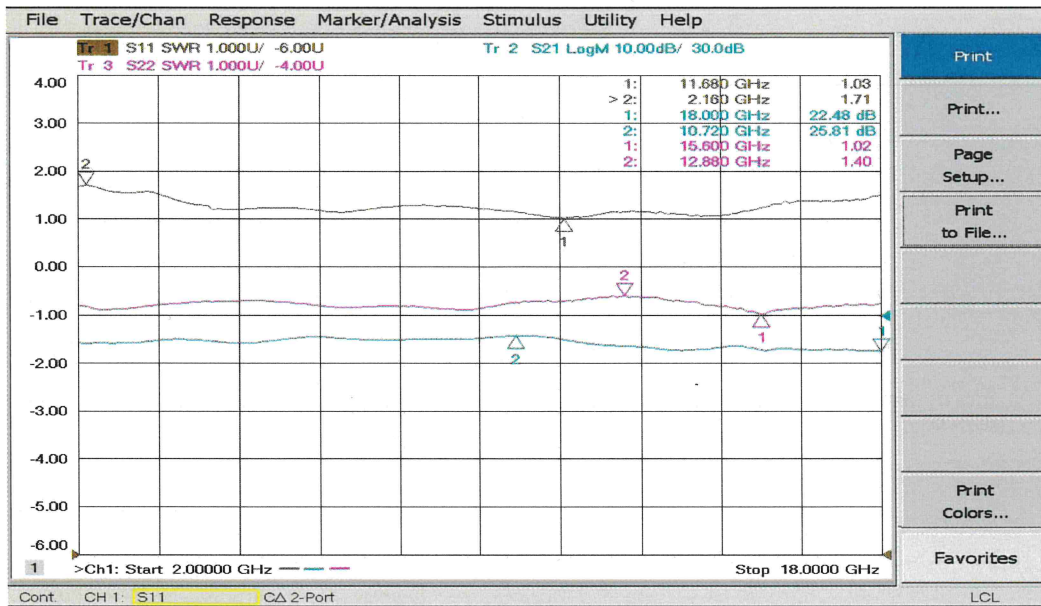




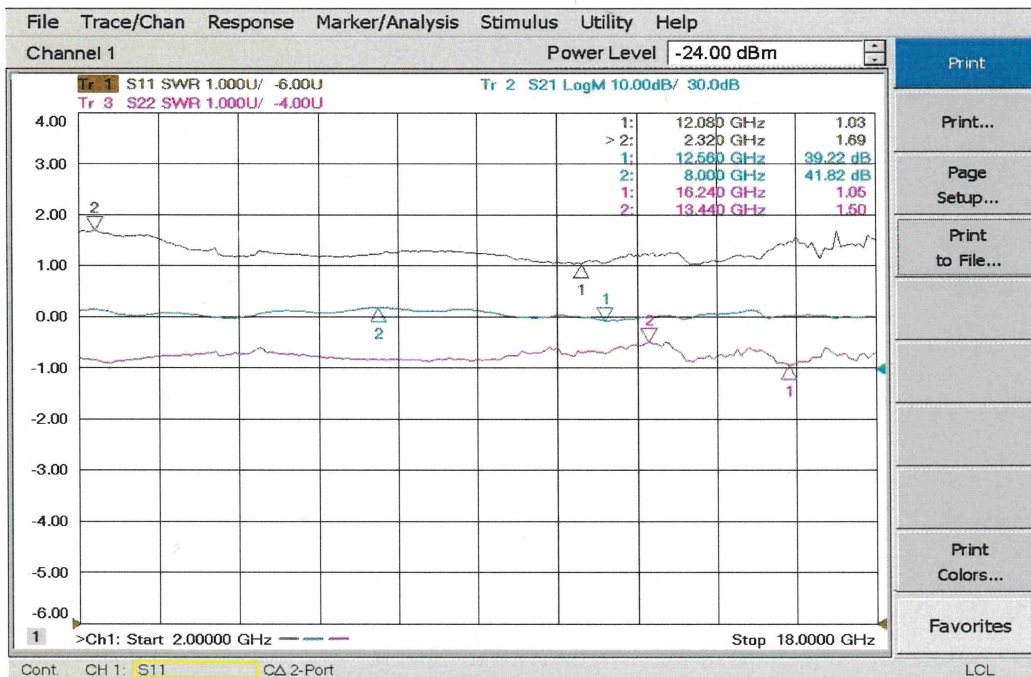
SUMMARY TEST DATA ON PEC-40/25-218-21-12-SFF-TTLVG

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Low Gain Position @ +75 C



High Gain Position @ + 75 C

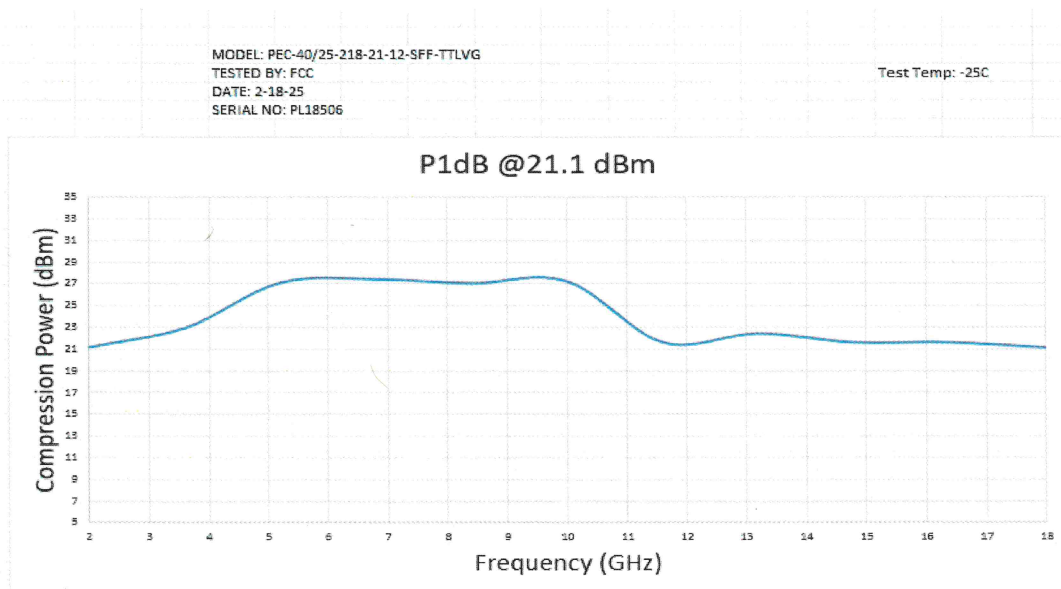




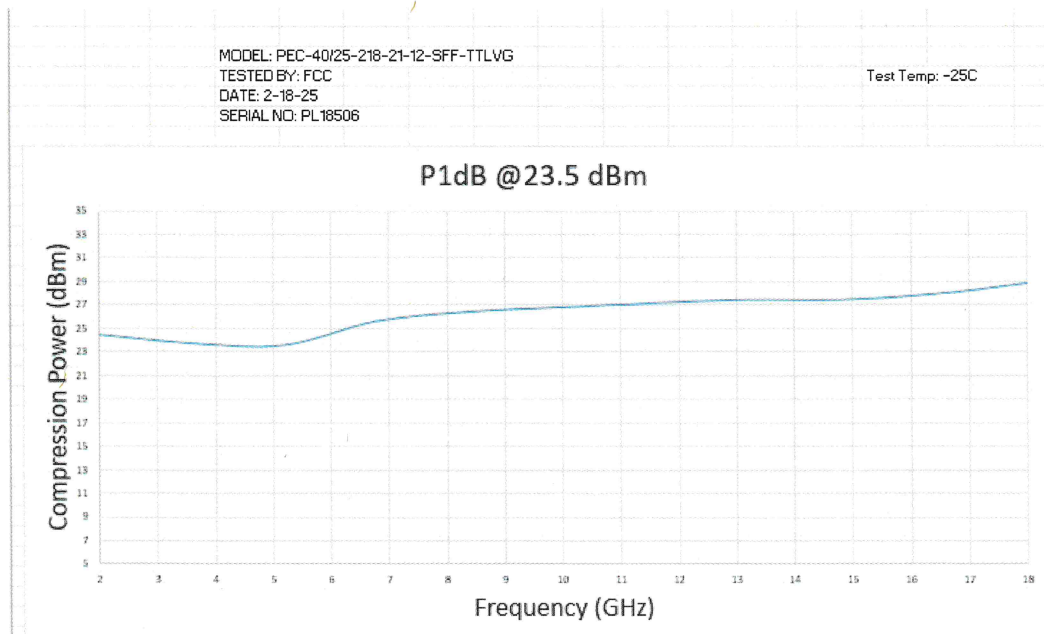
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PL18506/1605

OP1db Low Gain Position @ -25C



OP1db High Gain Position @ -25C

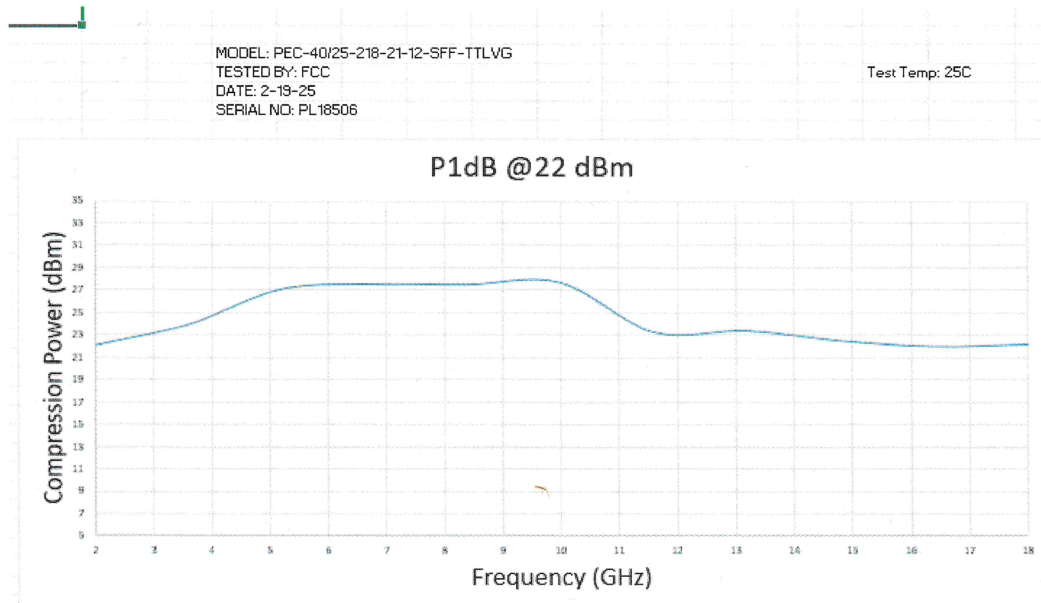




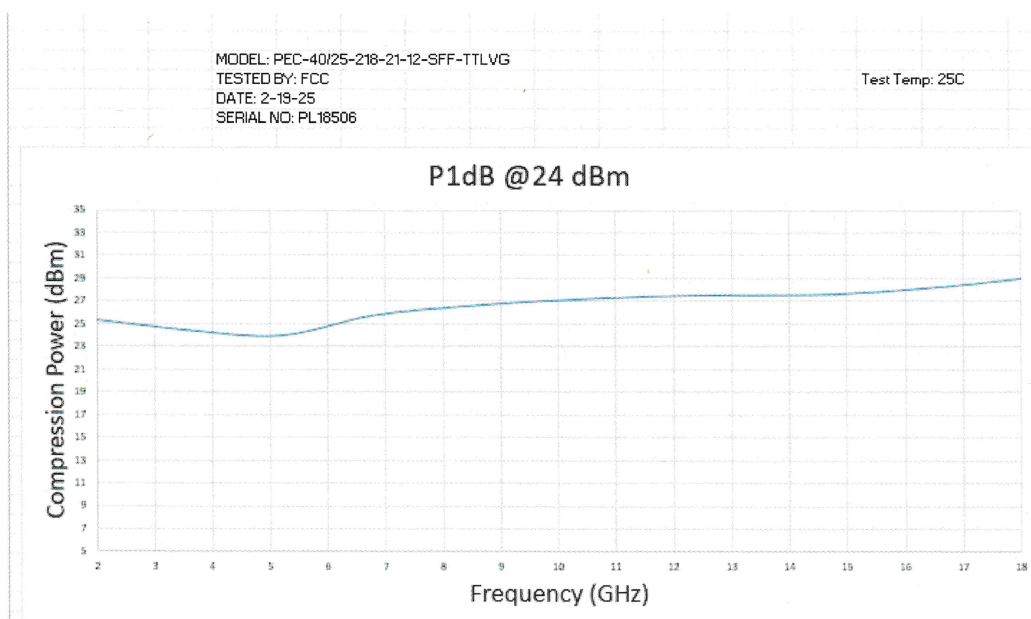
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OP1db Low Gain Position @ +25 C



OP1db High Gain Position @ +25 C





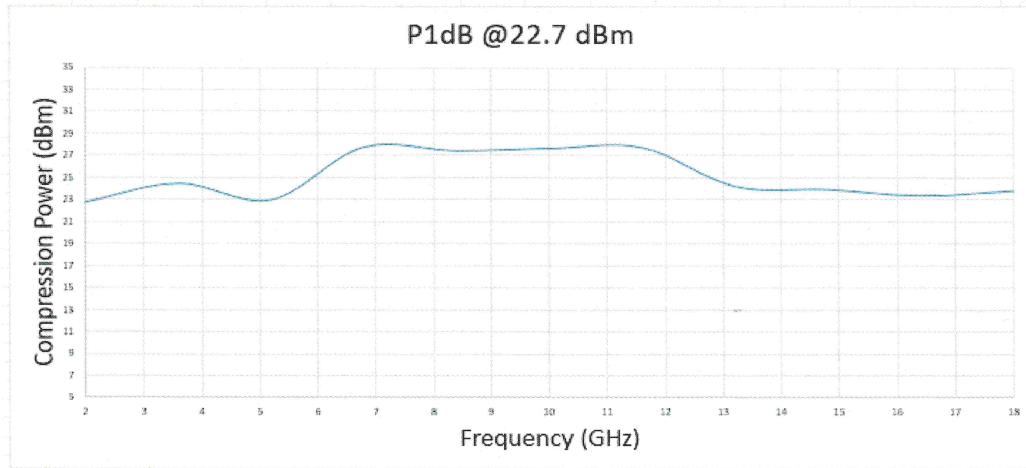
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OP1db Low Gain Position @ +75 C

MODEL: PEC-40/25-218-21-12-SFF-TTLVG
TESTED BY: FCC
DATE: 2-18-25
SERIAL NO: PL18506

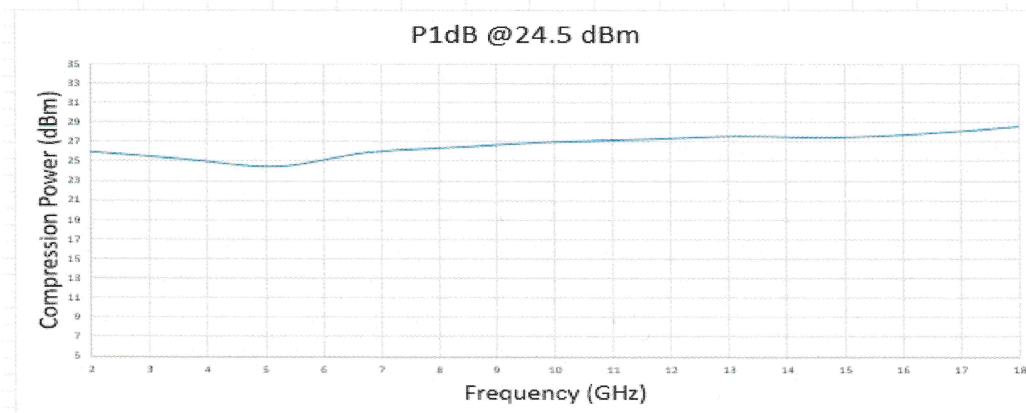
Test Temp: +75C



OP1db High Gain Position @ +75 C

MODEL: PEC-40/25-218-21-12-SFF-TTLVG
TESTED BY: FCC
DATE: 2-18-25
SERIAL NO: PL18506

Test Temp: +75C

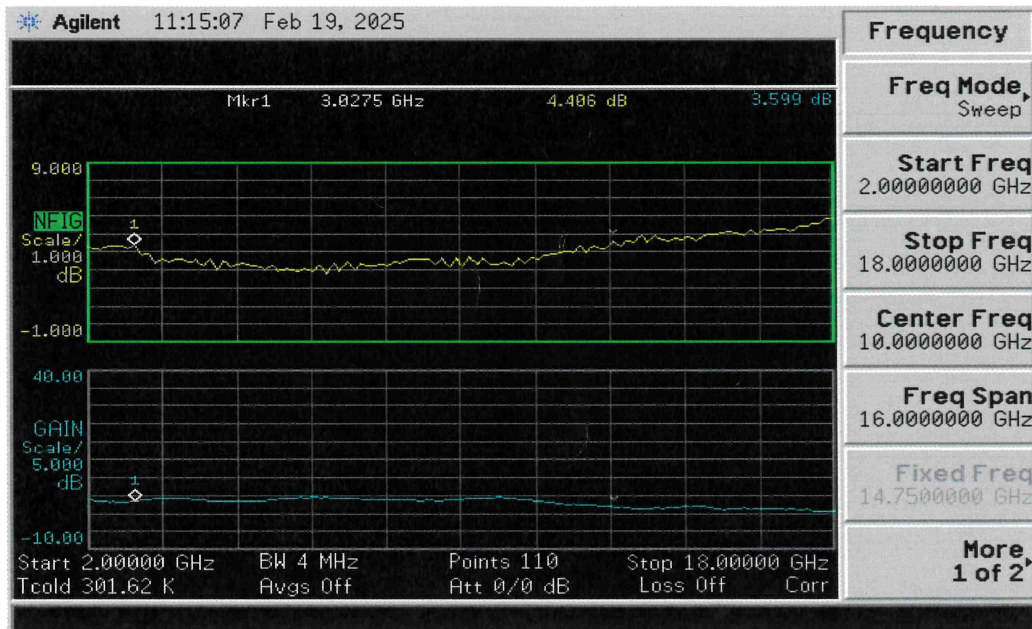




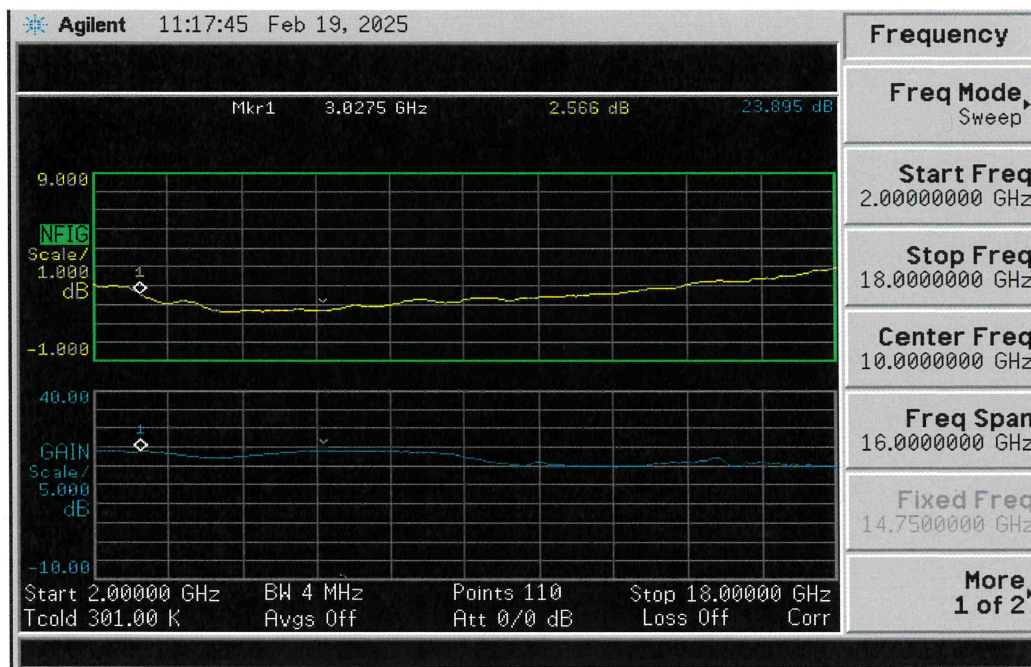
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Noise Figure Low Gain Position @ -25 C



Noise Figure High Gain Position @ -25 C

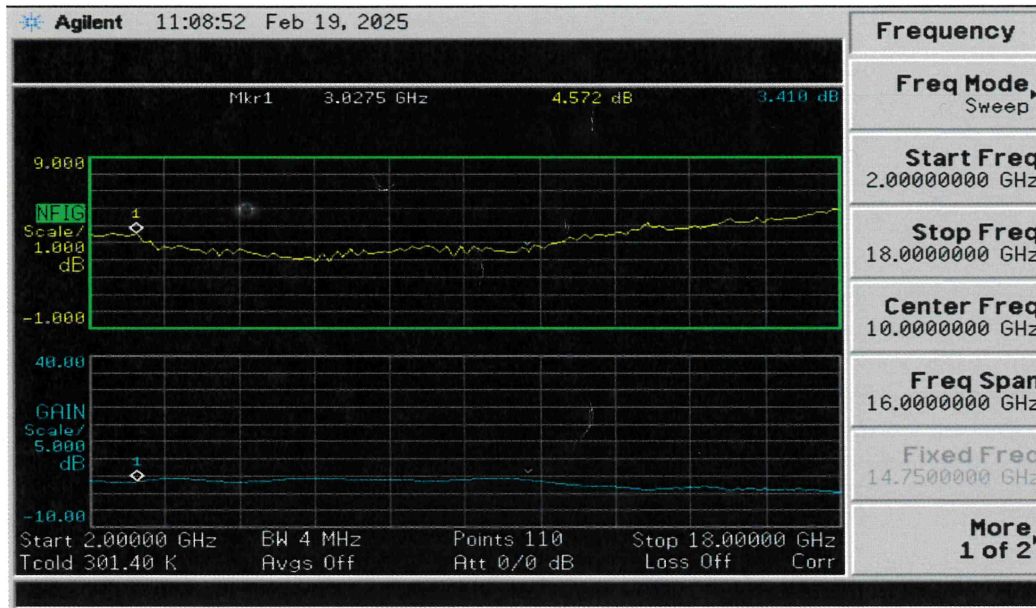




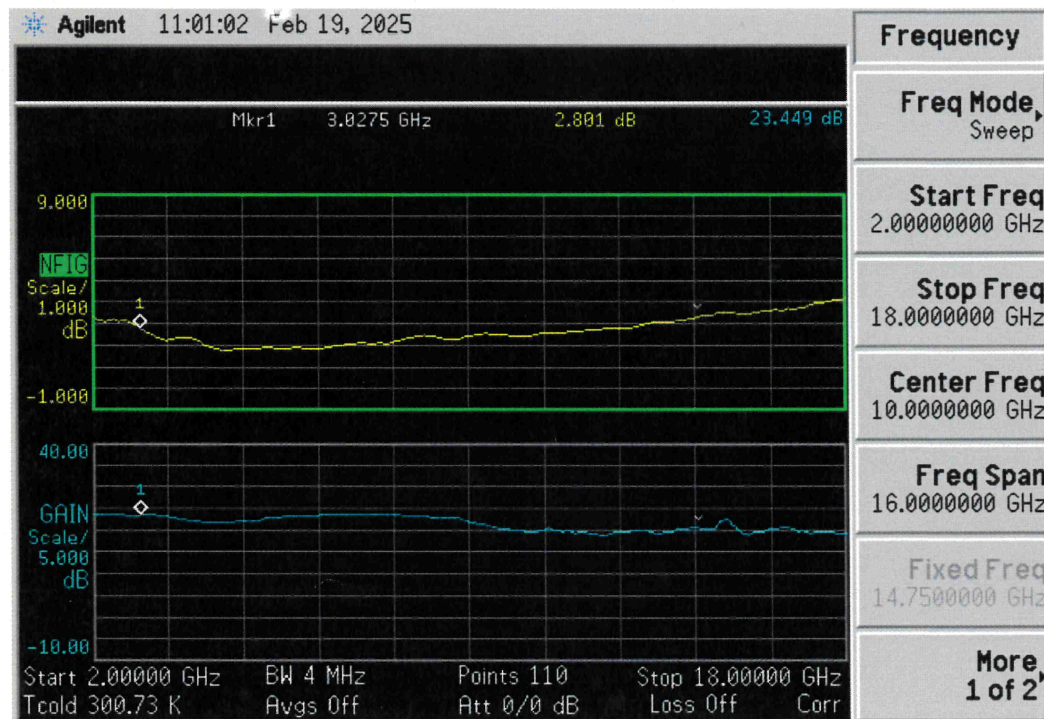
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Noise Figure Low Gain Position @ +25 C



Noise Figure High Gain Position @ + 25 C

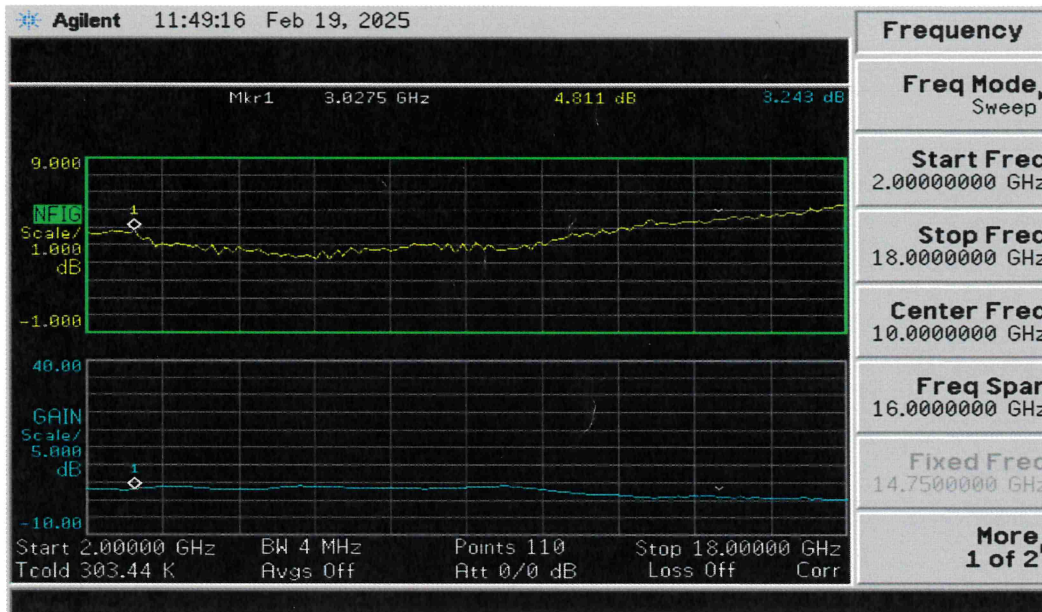




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Noise Figure Low Gain Position @ +75 C



Noise Figure High Gain Position @ +75 C

