

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

Customer: _____
SO No: _____
Model No: PEC-40/25-218-21-12-SFF-TTLVG Rev B
Serial No: PL62230/2637

Tested By: N. Hernandez
Temperature: -25°C, +25°C, +75°C
Date: 9/9/2026
Drawing No: 27605737 REV: B1

Test Item No.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Frequency Range:	2 – 18 GHz	2 – 18 GHz	PMI QA6
2	Gain @ -25°C: Max. Gain Position Min. Gain Position	+42dB ± 2.0dB Max +27dB ± 2.0dB Max	43.6 dB Max, 41 dB Min 26.6 dB Max, 25 dB Min	< 40 dB < 25 dB
3	Gain @ +25°C: Max. Gain Position Min. Gain Position	+40dB ± 2.0dB Max +25dB ± 2.0dB Max	41.8 dB Max, 38.7 dB Min 25.7 dB Max, 24.2 dB Min	PMI QA6
4	Gain @ +75°C: Max. Gain Position Min. Gain Position	+37dB ± 2.0dB Max +22dB ± 2.0dB Max	40.2 dB Max, 36.2 dB Min 24.6 dB Max, 22.4 dB Min	> 39 dB > 24 dB
5	Pout @ 1dB Compression @ -25°C: Max. Gain Position Min. Gain Position	+21dBm Min. +20dBm Min.	24.5 dB Min 24.2 dB Min	PMI QA6
6	Pout @ 1dB Compression @ +25°C: Max. Gain Position Min. Gain Position	+21dBm Min. +20dBm Min.	24.3 dB Min 23.5 dB Min	
7	Pout @ 1dB Compression @ +75°C: Max. Gain Position Min. Gain Position	+20dBm Min. +20dBm Min.	24.1 dB Min 23 dB Min	PMI QA6
8	Saturated Output Power (Both Gains) Over Operating Temperature Range:	+26dBm. Max.	+26dBm.	> 26 dB
9	Noise @ -25°C: Max. Gain Position Min. Gain Position	+3.8 dB Max. +6.0 dB Max.	3.8 dB Max 4 dB Max	PMI QA6
10	Noise @ +25°C: Max. Gain Position Min. Gain Position	+4.5 dB Max. +7.0 dB Max.	4.1 dB Max 4.42 dB Max	
11	Noise @ +75°C: Max. Gain Position Min. Gain Position	+5.0 dB Max. +8.0 dB Max.	4.2 dB Max 5 dB Max	
12	VSWR In/Out:	2.0:1 Max.	1.73:1 dB (In) 1.67:1 dB (Out) -25C 1.71:1 dB (In) 1.59:1 dB (Out) +25C 1.67:1 dB (In) 1.55:1 dB (Out) +75C	
13	Input/Output Impedance:	50Ω Nominal	50Ω Nominal	
14	Input Power Without Damage	+20dBm CW Max	+20dBm CW Max	
15	In-Band Harmonics @ or below the 1dB Compression Point	-10dBc Min.	-10dBc	
16	Pulse Rise Time with Input Signals up to -20dBm	<5ns	<5ns By Design	
17	Pulse Overshoot with Input Signals up to -20dBm	<0.5dB	<0.5dB By Design	PMI QA6

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18	Pulse Droop with pulses up to 250u in Duration and Input Signals up to -20dBm	<2.0dB	<2.0dB By Design		PMI QA6
19	Pulse Recovery Time with pulses up to 250u in Duration and Input Signals up to -20dBm	15ns	15ns By Design		
20	Gain Switching Time	<500ns	226ns		
21	Gain Switch Control:	TTL High "1" - Max. Gain TTL Low "0" - Min. Gain	TTL High "1" - Max. Gain TTL Low "0" - Min. Gain		
22	DC Supply:	780mA Max@ +12V ±5% Max Gain Position. 610mA Max@ +12V ± 5% Min Gain Position.	512mA Max Gain	-25C	PMI QA6
			508mA Min Gain		
			513mA Max Gain	+25C	
			509mA Min Gain		
			516mA Max Gain	+75C	
			511mA Min Gain		

QA/QC

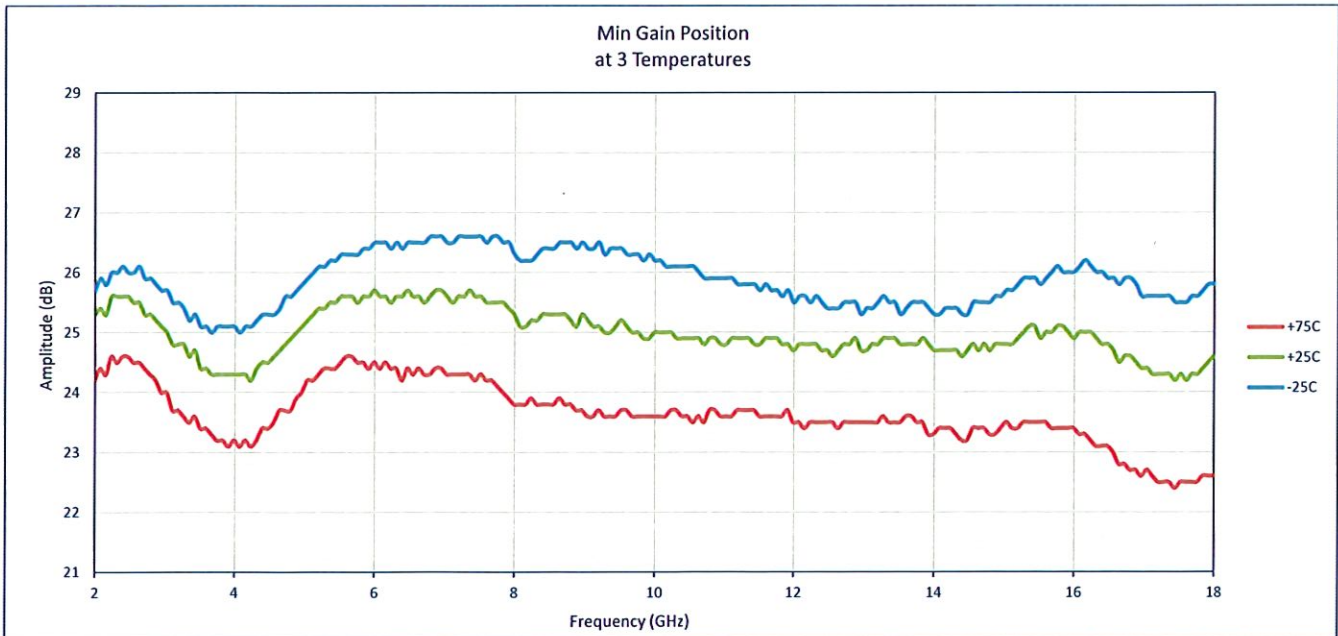
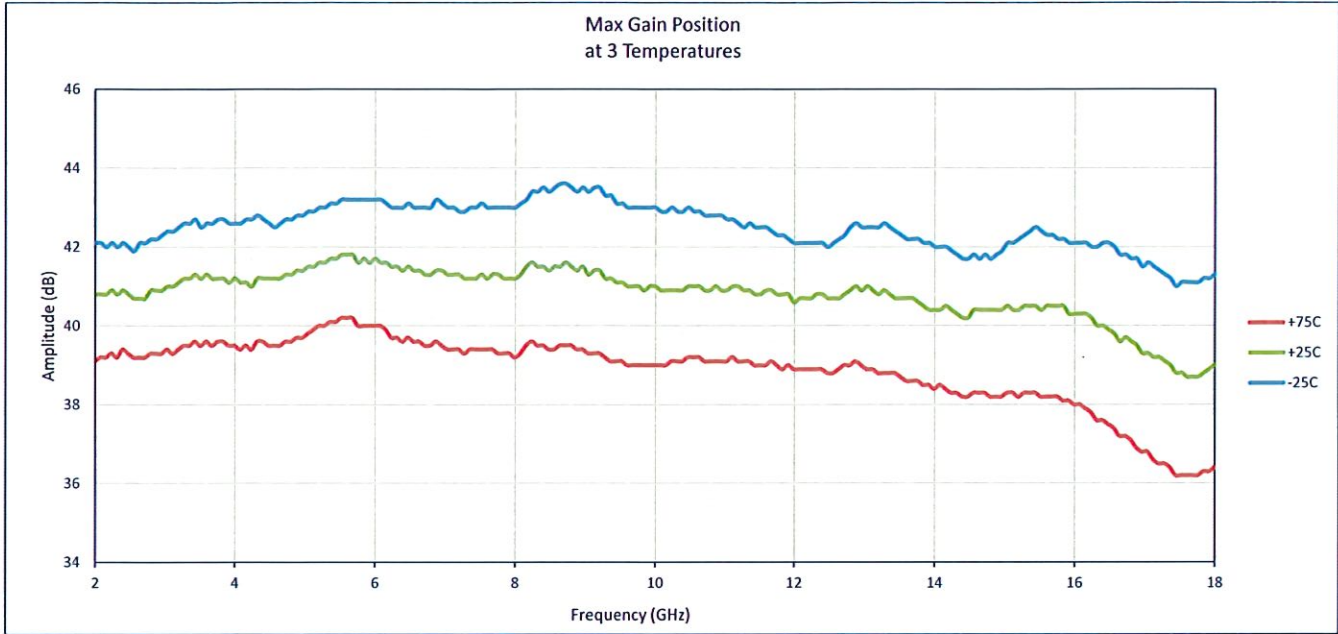
Anthony Karoly PMI
QA6

DATE:

9/10/26

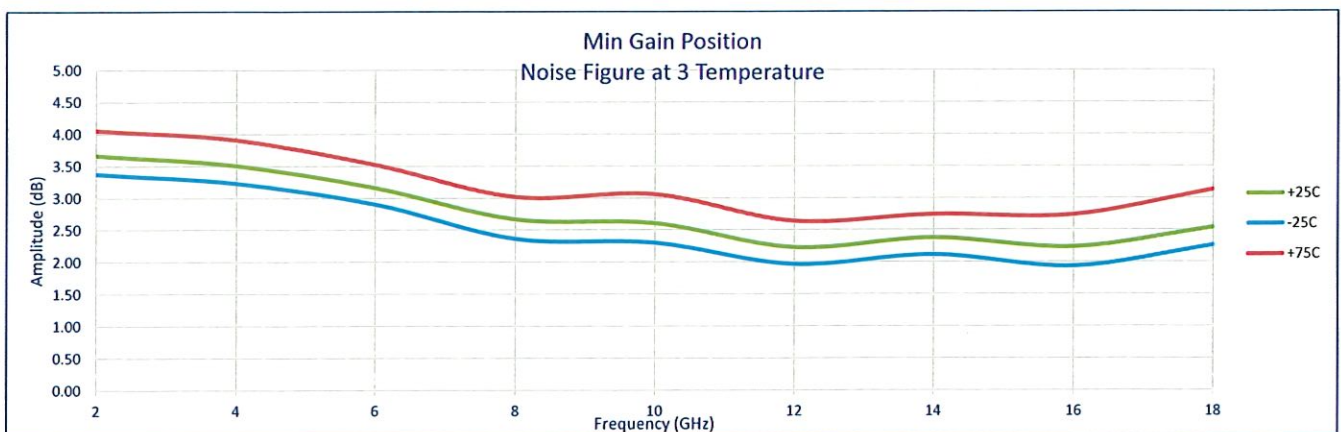
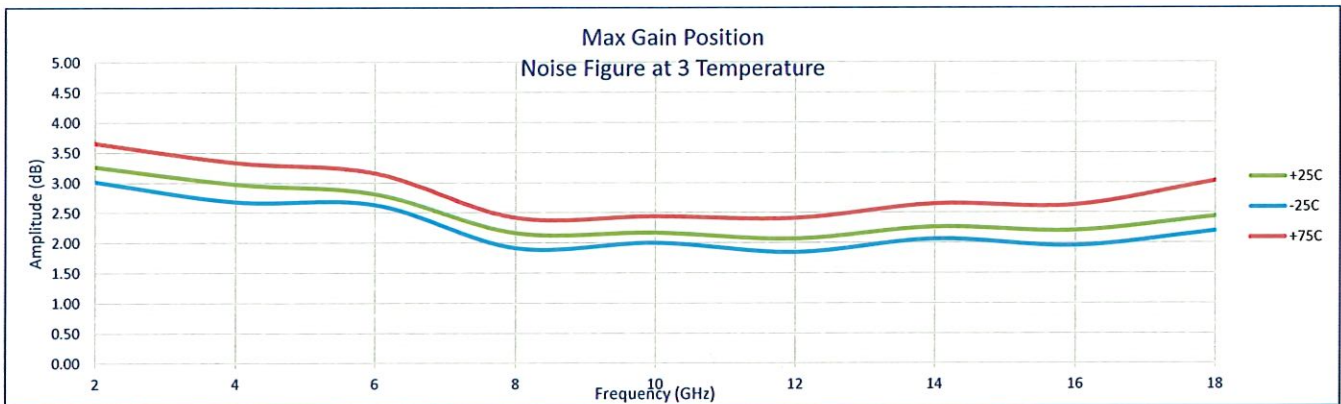
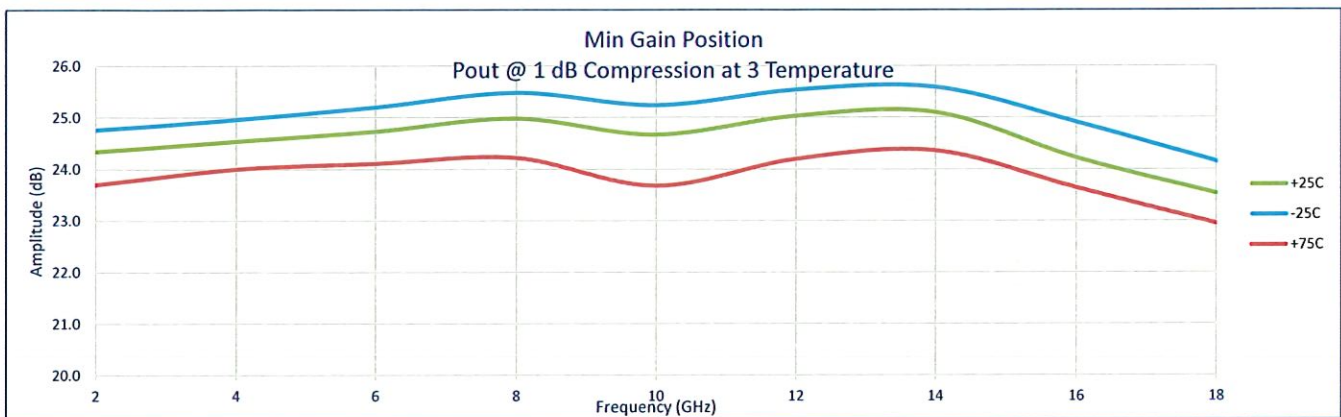
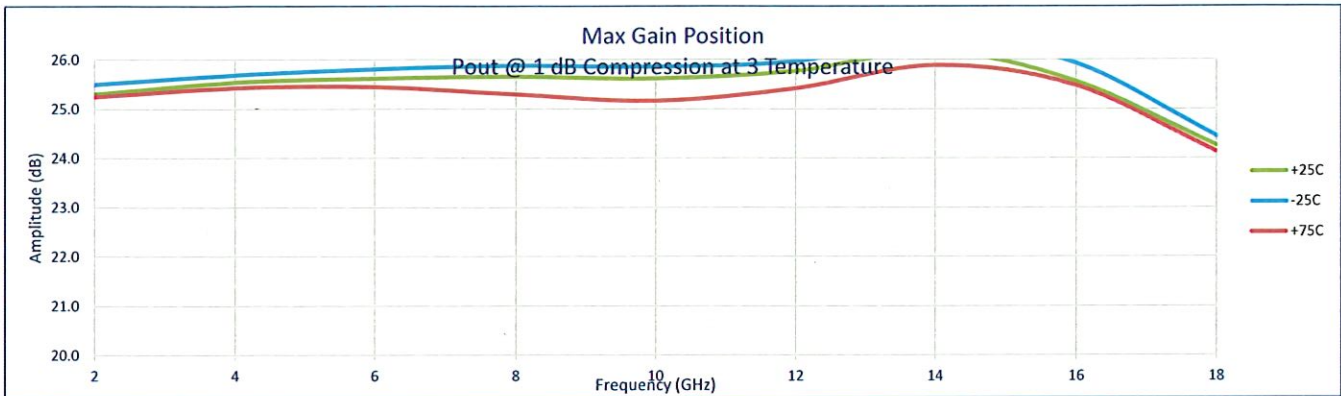
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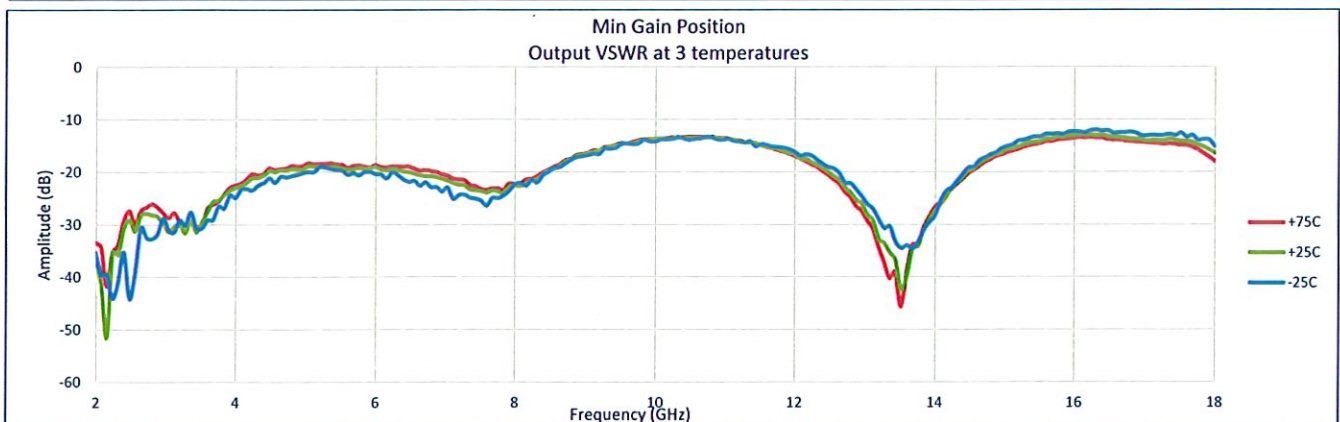
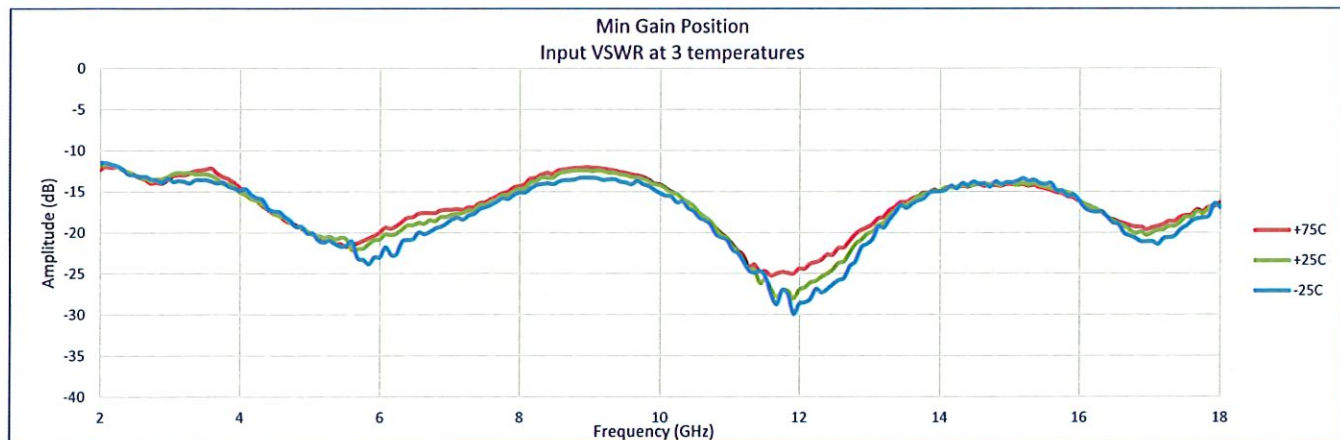
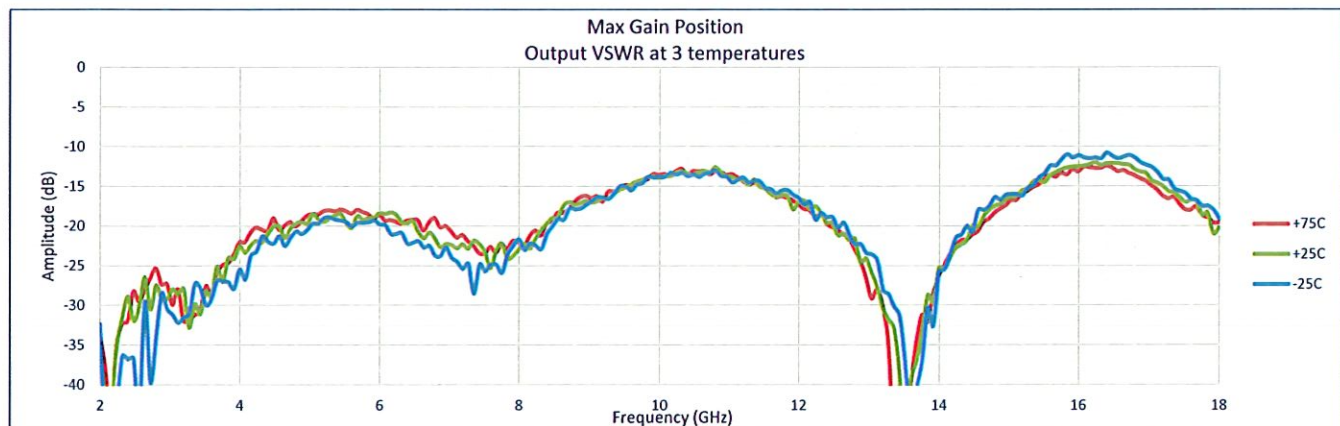
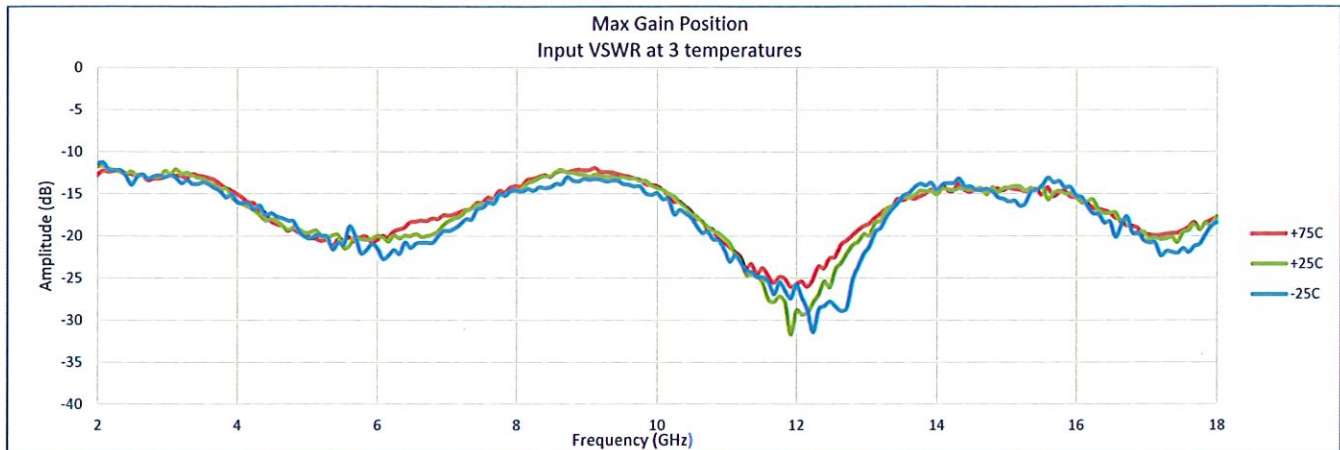
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