



Typical Characteristics ON APD-8-DC23G-292FF

Customer: DEMO-PMI
 SO No: _____
 Model No: APD-8-DC23G-292FF
 Serial No: DEMO-PMI

Tested By: A. Lopez
 Temperature: +25 °C
 Date: 10/22/2020
 Drawing No: 27639020 Rev: A1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS +25°C	QA QC
1	Frequency Range	DC GHz – 23 GHz	DC GHz – 23 GHz	PMI QA 2
2	Insertion Loss	22 to 23 GHz - 7.0 dB Max. 18 to 22 GHz - 5.0 dB Max. 8 to 18 GHz - 3.2 dB Max. 2 to 8 GHz - 2.0 dB Max. 1 to 2 GHz – 2.0 dB Max. 0.5 to 1 GHz – 2.0 dB Max. 300 to 500 MHz - 1.5 dB Max 200 to 300 MHz - 2.6 dB Max 100 to 200 MHz - 3.2 dB Max 80 to 100 MHz - 4.0 dB Max 40 to 80 MHz - 4.5 dB Max. 20 to 40 MHz - 4.5 dB Max 10 to 20 MHz -5.0 dB Max	4.55 dB	PMI QA 2
			4.81 dB	
			2.86 dB	
			1.82 dB	
			1.62 dB	
			1.45 dB	
			0.64 dB	
			1.91 dB	
			2.64 dB	
			3.27 dB	
			3.35 dB	
			3.59 dB	
			3.84 dB	
			See Graphs	
3	Insertion Loss Flatness (Ref Line of Best Fit)	0.5 to 23 GHz - ± 2 dB Max. 10 to 500 MHz - ± 2 dB Max	Pass See Typical Characteristics	
4	VSWR Input	22 to 23 GHz - 2.0:1 Typ. 18 to 22 GHz - 2.0:1 Typ. 8 to 18 GHz - 2.0:1 Max. 2 to 8 GHz - 2.1:1 Max. 1 to 2 GHz – 2.4:1 Max. 0.5 to 1 GHz – 2.3:1 Typ. 300 to 500 MHz - 4.0:1 Typ. 200 to 300 MHz - 5.0:1 Typ. 100 to 200 MHz - 6.0:1 Typ. 80 to 100 MHz - 7.0:1 Typ. 40 to 80 MHz -7.0:1 Typ. 20 to 40 MHz - 7.0:1 Typ. 10 to 20 MHz -7.0:1 Typ.	1.98 :1	PMI QA 2
			2.04 :1	
			1.88 :1	
			2.01 :1	
			2.45 :1	
			2.32 :1	
			4.09 :1	
			5.27 :1	
			6.31 :1	
			7.03 :1	
			7.03 :1	
			7.18 :1	
			7.41 :1	
			See Graphs	
5	VSWR /Output	22 to 23 GHz - 2.0:1 Typ. 18 to 22 GHz - 2.0:1 Typ. 8 to 18 GHz - 2.0:1 Max. 2 to 8 GHz - 2.1:1 Max. 1 to 2 GHz – 2.6:1 Max. 0.5 to 1 GHz – 2.0:1 Typ. 300 to 500 MHz - 2.0:1 Typ. 200 to 300 MHz - 2.5:1 Typ. 100 to 200 MHz - 3.0:1 Typ. 80 to 100 MHz - 4.0:1 Typ 40 to 80 MHz - 7.0:1 Typ. 20 to 40 MHz - 7.0:1 Typ 10 to 20 MHz -7.0:1 Typ	1.28 :1	PMI QA 2
			1.22 :1	
			1.64 :1	
			1.69 :1	
			1.74 :1	
			1.66 :1	
			1.82 :1	
			2.39 :1	
			3.7 :1	
			4.21 :1	
			5.55 :1	
			6.46 :1	
			7.02 :1	
			See Graphs	



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Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA
			+25°C	QC
6	Isolation	22 to 23 GHz - 10 dB Typ. 18 to 22 GHz - 15 dB Typ. 8 to 18 GHz - 20 dB Typ. 2 to 8 GHz - 20 dB Typ. 1 to 2 GHz - 10 dB Typ. 0.5 to 1 GHz - 10 dB Typ. 300 to 500 MHz - 5 dB Typ. 200 to 300 MHz - 5 dB Typ. 100 to 200 MHz - 5 dB Typ. 80 to 100 MHz - 7 dB Typ. 40 to 80 MHz - 7 dB Typ. 20 to 40 MHz - 10 dB Typ. 10 to 20 MHz - 12 dB Typ.	8.88 dB	PMI QA 2
			12.89 dB	
			17.08 dB	
			19.84 dB	
			11.21 dB	
			6.36 dB	
			4.75 dB	
			4.7 dB	
			4.89 dB	
			6.36 dB	
			4.7 dB	
			9.36 dB	
			11.22 dB	
			See Graphs	
7	Amplitude Balance	22 to 23 GHz - ± 2 dB Max. 18 to 22 GHz - ± 1.2 dB Max. 8 to 18 GHz - ± 0.5 dB Max. 2 to 8 GHz - ± 0.3 dB Max. 1 to 2 GHz - ± 0.5 dB Max. 0.5 to 1 GHz - ± 0.5 dB Max. 300 to 500 MHz - 0.5 dB Max 200 to 300 MHz - 0.5 dB Max 100 to 200 MHz - 0.5 dB Max 80 to 100 MHz - 0.5 dB Max 40 to 80 MHz - 0.5 dB Max. 20 to 40 MHz - 0.5 dB Max 10 to 20 MHz - 0.5 dB Max	0.83 dB (±)	PMI QA 2
			0.9 dB (±)	
			0.39 dB (±)	
			0.12 dB (±)	
			0.18 dB (±)	
			0.21 dB (±)	
			0.43 dB (±)	
			0.33 dB (±)	
			0.46 dB (±)	
			0.28 dB (±)	
			0.27 dB (±)	
			0.11 dB (±)	
			0.11 dB (±)	
			See Graphs	
8	Phase Balance	22 to 23 GHz - 20° Max. 18 to 22 GHz - 15° Max. 8 to 18 GHz - 10° Max. 2 to 8 GHz - 4° Max. 1 to 2 GHz - 3° Max. 0.5 to 1 GHz - 5° Max. 300 to 500 MHz - 5° Max 200 to 300 MHz - 5° Max 100 to 200 MHz - 5° Max 80 to 100 MHz - 5° Max 40 to 80 MHz - 5° Max. 20 to 40 MHz - 5° Max 10 to 20 MHz - 5° Max	13.29°	PMI QA 2
			10.54°	
			8.15°	
			3.12°	
			0.92°	
			1.56°	
			3.86°	
			1.68°	
			1.78°	
			2.07°	
			1.84°	
			1.34°	
			1.03°	
			See Graphs	
9	Average Power	25 Watts (+44dBm) (Into 1.2:1 Load VSWR)	Pass See Typical Characteristics	PMI QA 2

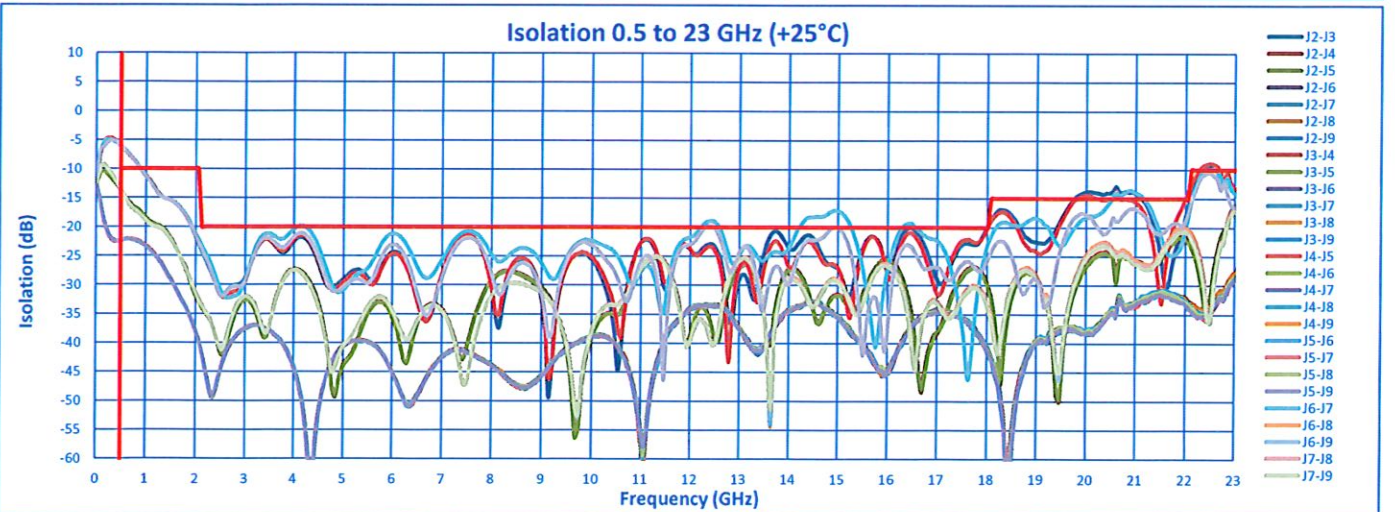
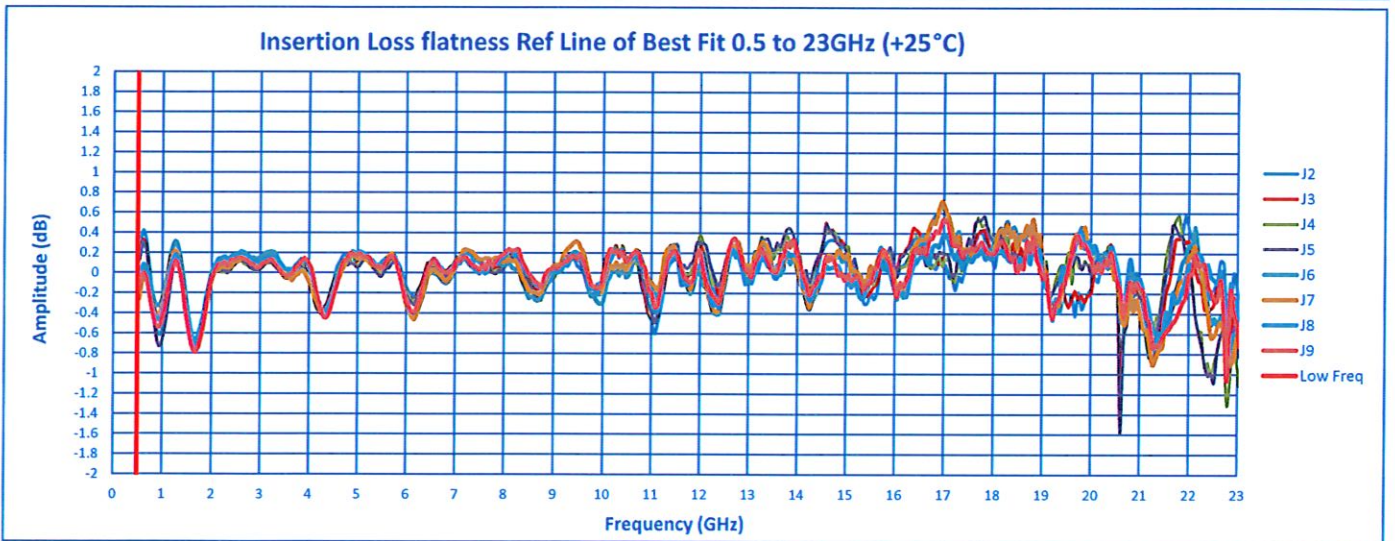
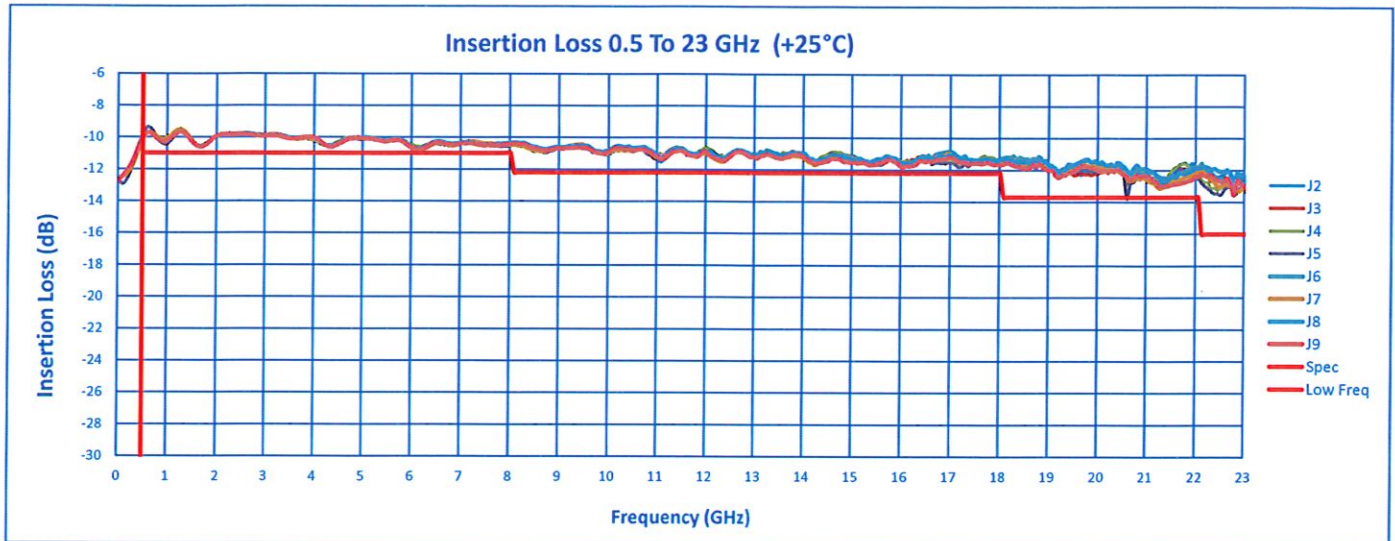
Note: Amplitude and phase balance are relative to J2 Port.

QA/QC Approval:  PMI QA 2

Date: 10/22/20

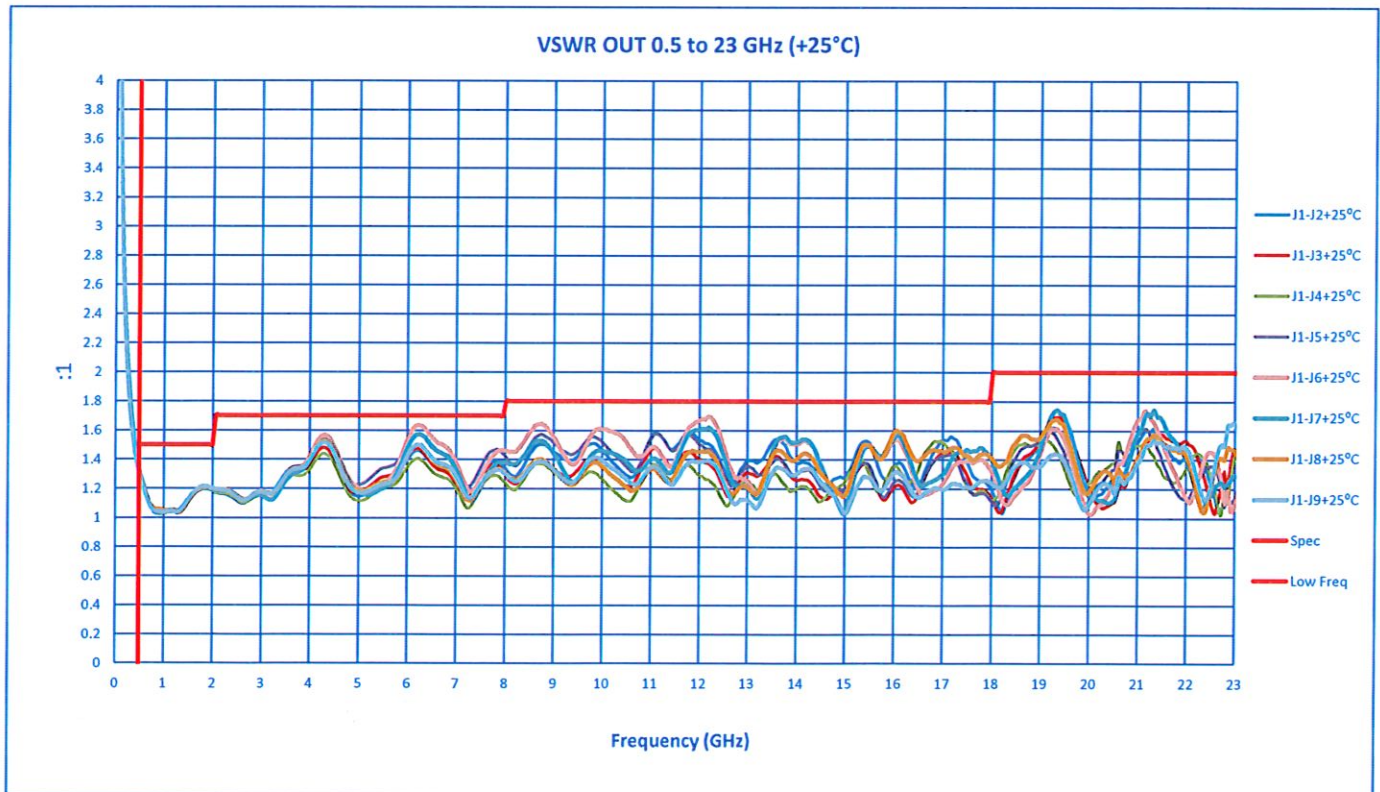
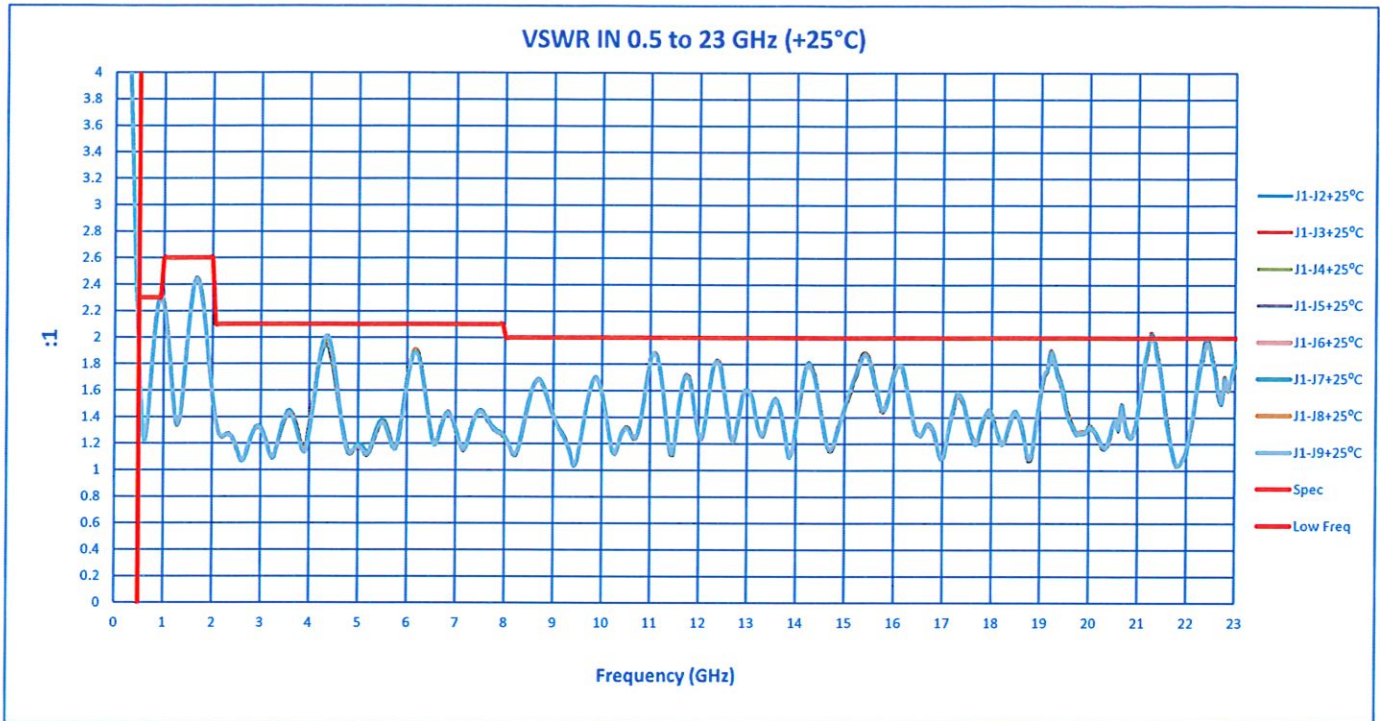


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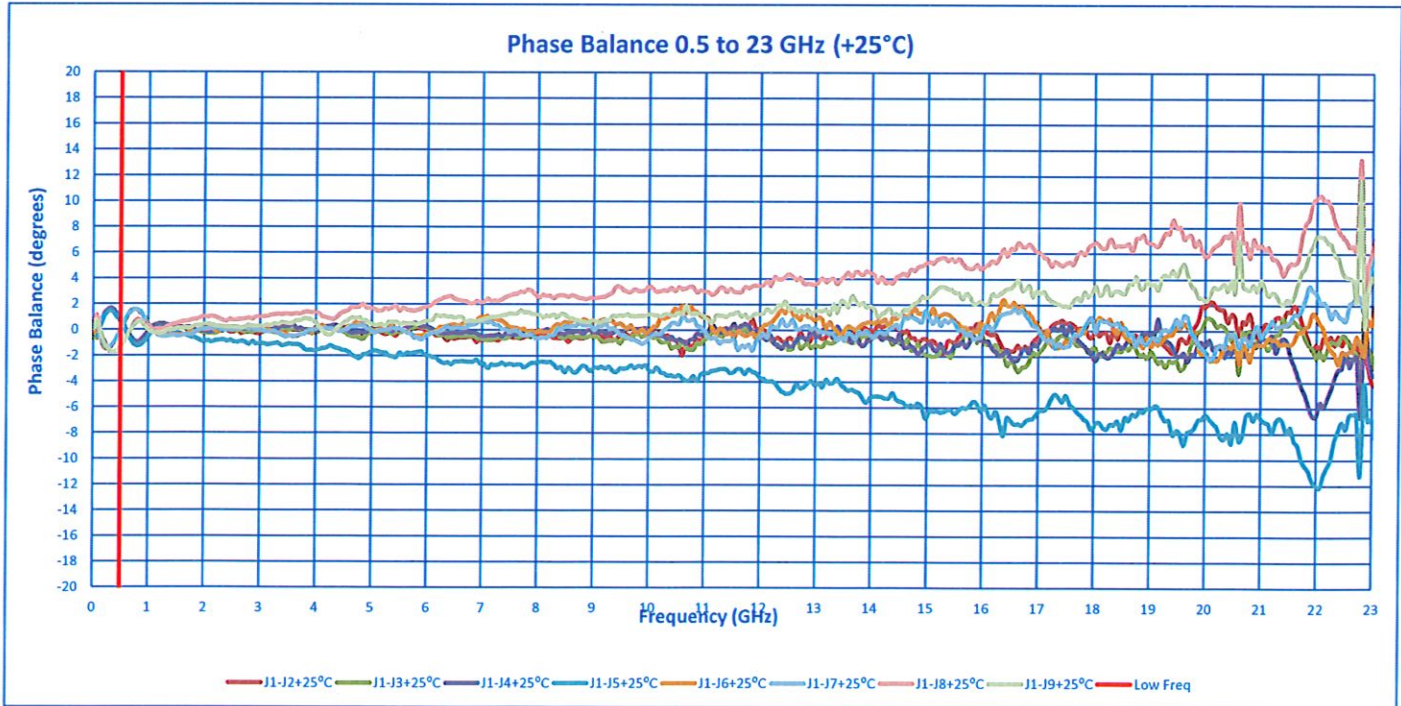
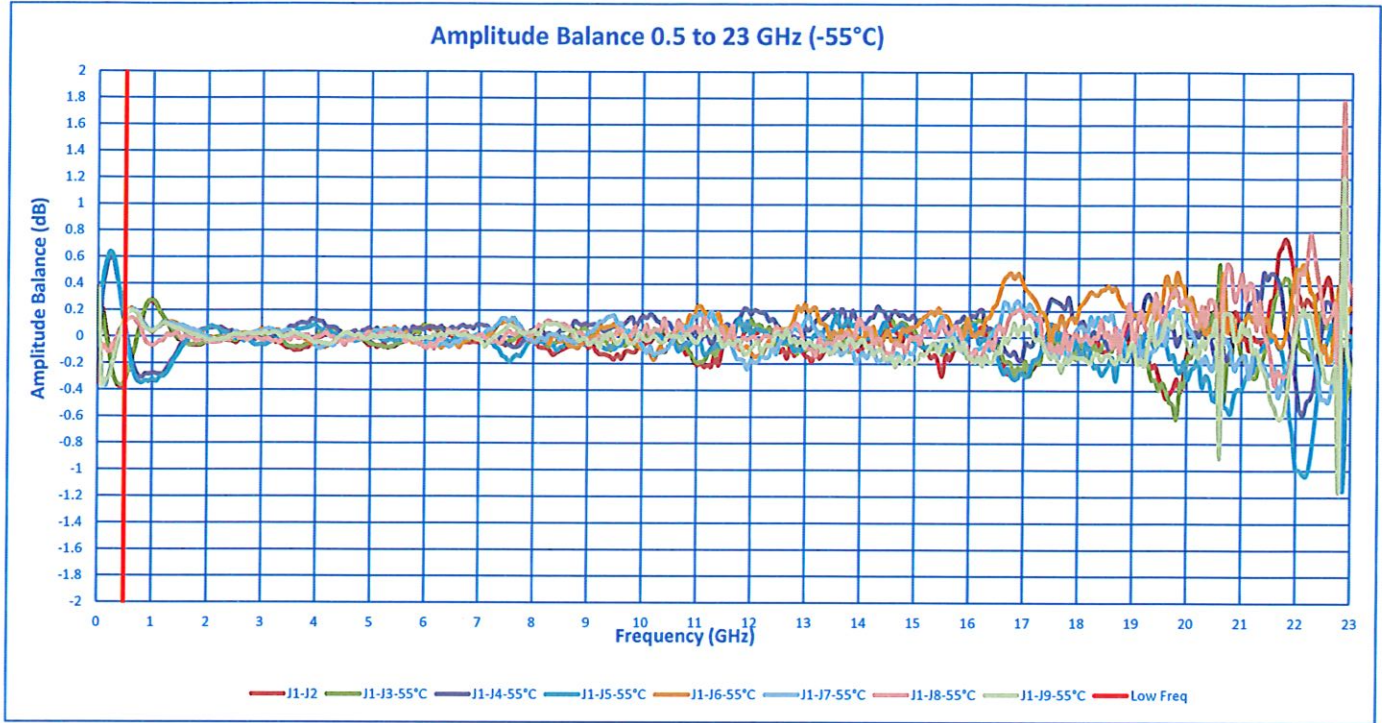


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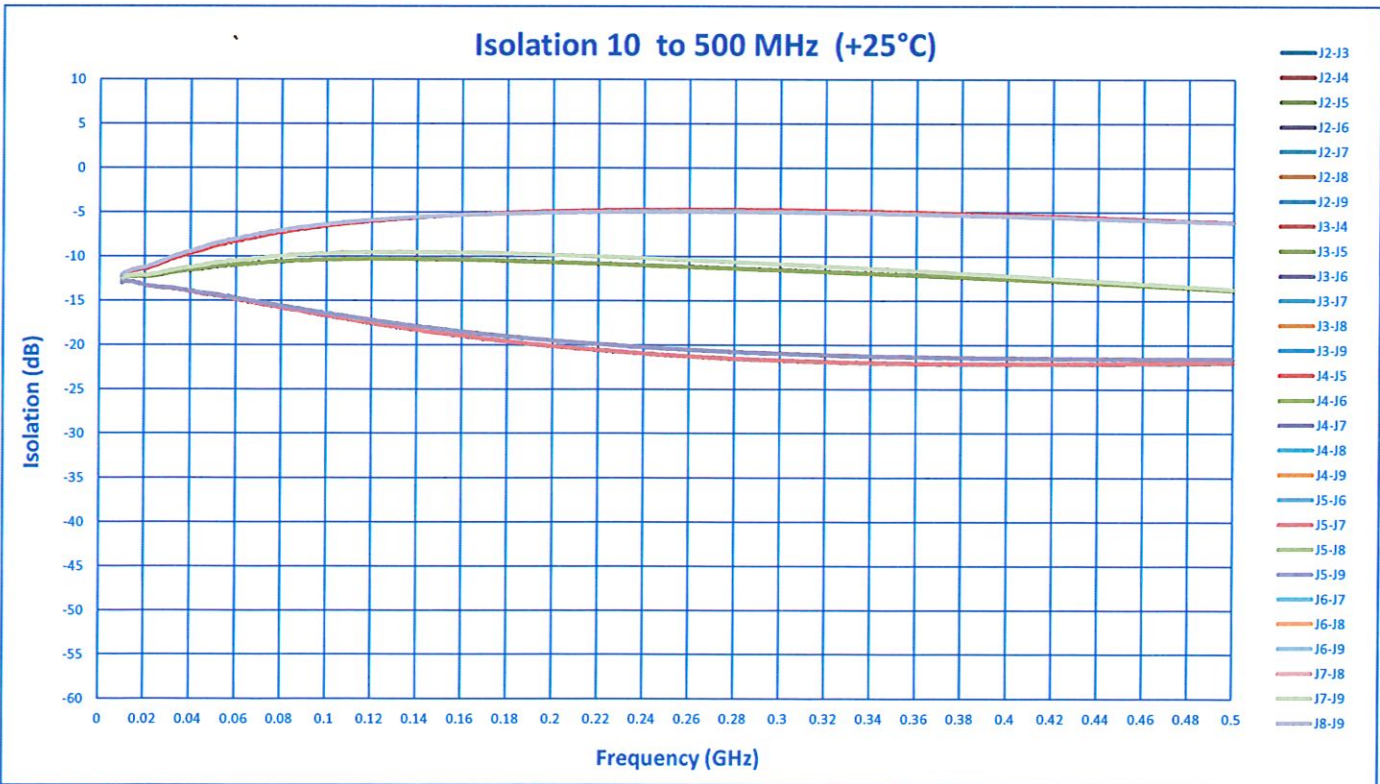
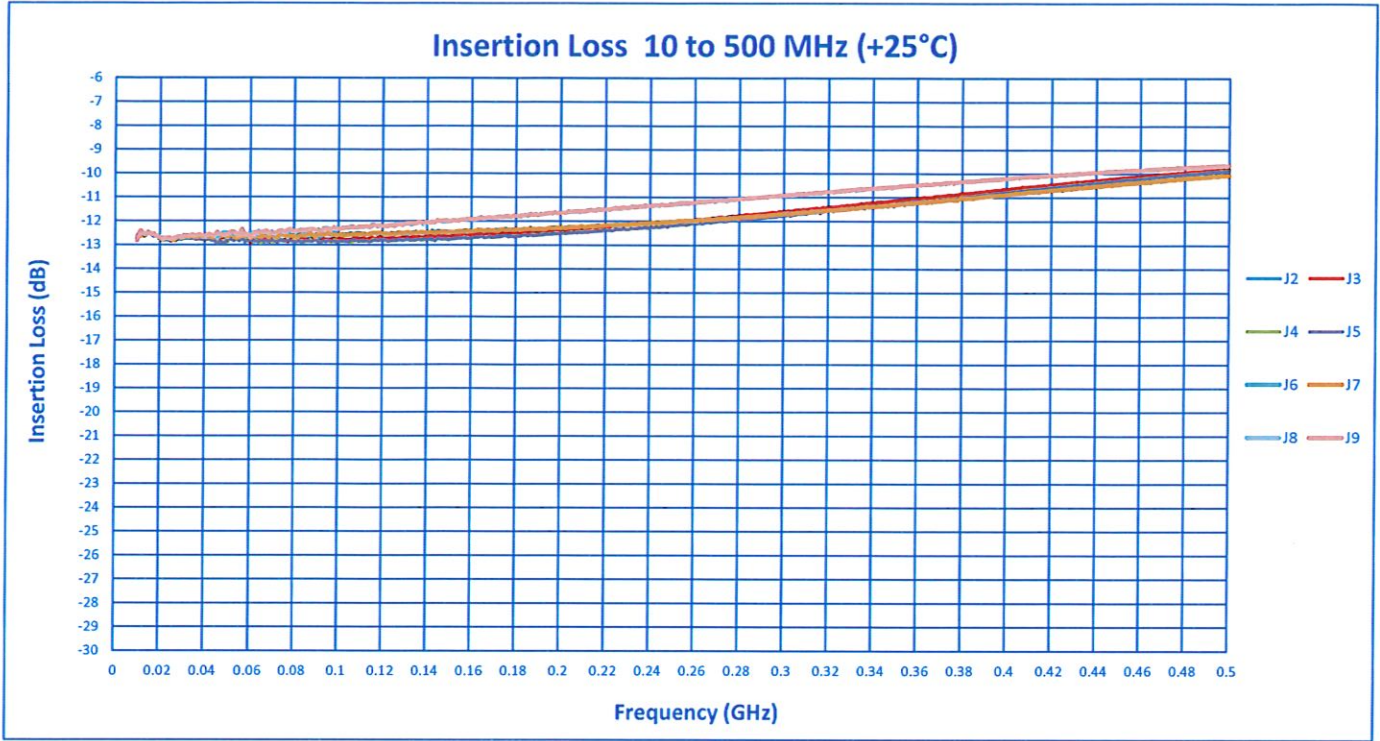


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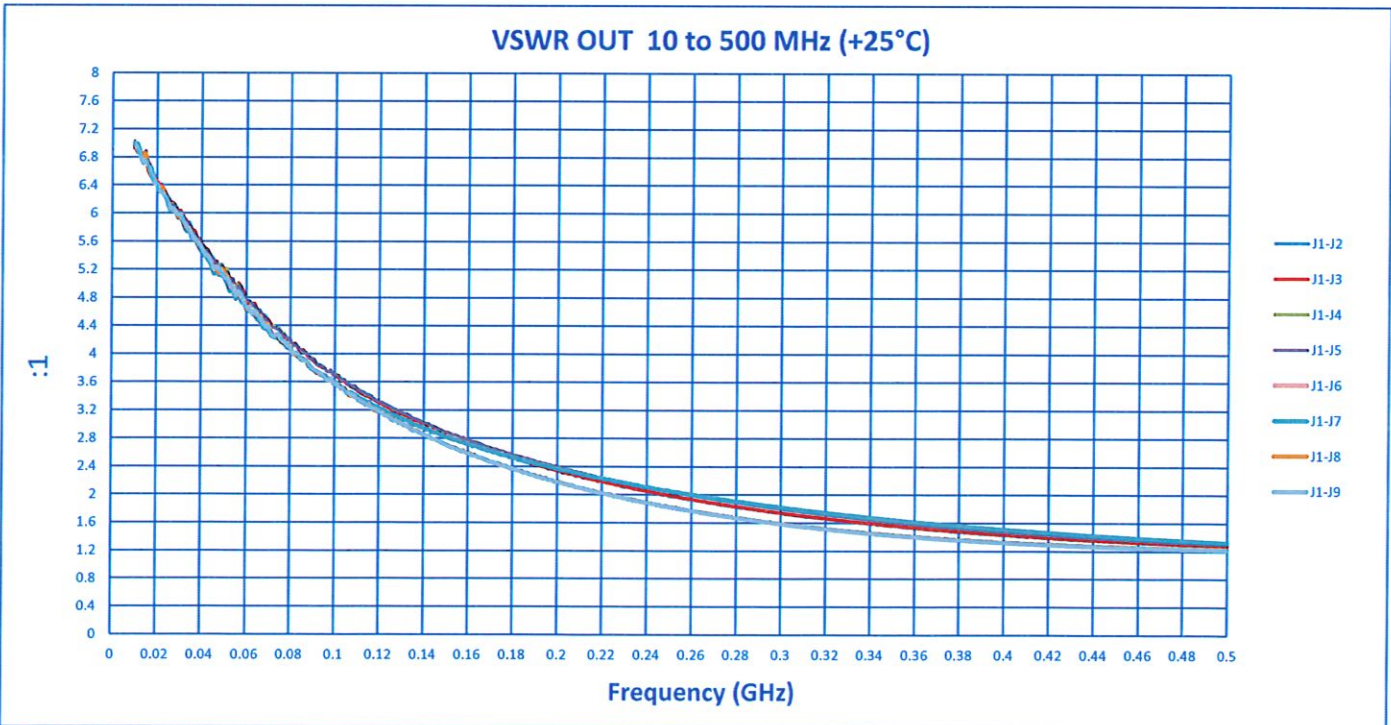
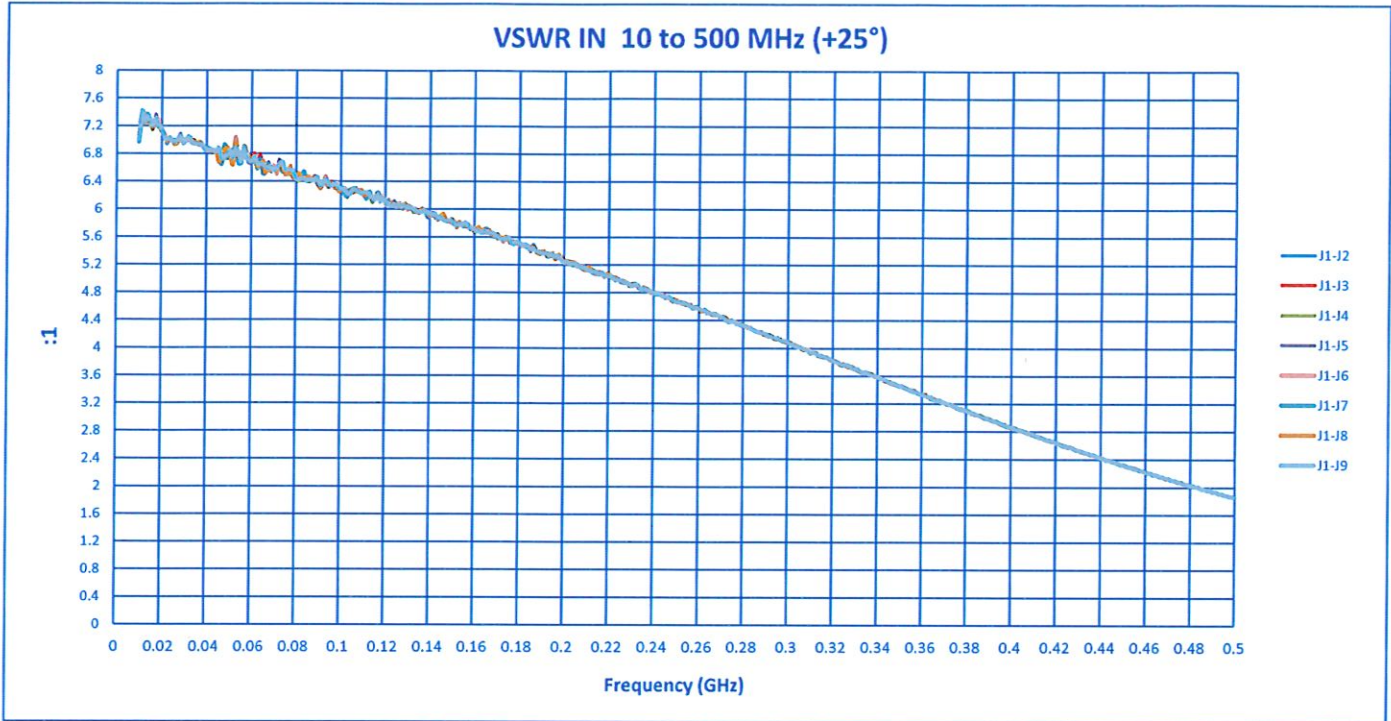


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