Quantic PMI
PLANAR MONOLITHICS

SUMMARY TEST DATA ON PS-30M2G-8B-SFF

Customer:
Job No:
Model No: PS-30M2G-8B-SFF
Serial No: PL50722/2450

Tested By: K. Mansfield
Date: Wednesday, December 18, 2024
Temp: +25°C
Drawing No: 27644980 Rev: B1

Data Taken at -10 dBm Input Power

Test Item No.	Parameters	Specified Value	Measured Value	QA QC
1	Frequency Range:	0.03 to 2.0 GHz	0.03 to 2.0 GHz	PMI QA4
2	Control:	8 BIT TTL	Pass	
3	Insertion Loss:	14 dB Max.	9.99 dB See Plot	
4	VSWR:	2.0:1 Max.	1.73:1	
5	Phase Shift:	360° Typ.	360°	
6	Amplitude Error:	±1.5 dB Max. ±1.0 dB Typ,	±0.05 dB See Plot	
7	Phase Shift Error:	±10° Typ.	+0.9° -1.82° See Plot	
8	Switching Speed:	500 ns Max.	See Typical Characteristics	
9	Power Supply:	+15 V @ 275 mA Max. -15 V @ 75 mA Max.	+15 V @ 193 mA -15 V @ 29 mA	PMI QA4

Programed Phase Shift	Phase Shift	Accuracy	Flatness
DEG	DEG	DEG	±DEG
1.40625	1.43	-0.02	0.13
2.8125	2.83	-0.01	0.21
5.625	5.62	0.01	0.42
11.25	11.30	-0.05	0.93
22.5	22.87	-0.37	2.40
45	46.29	-1.29	6.38
90	91.59	-1.59	8.31
180	179.66	0.34	1.59
358.59375	358.60	0.00	0.11

Programed Phase Shift	Phase Shift	Accuracy	Flatness
DEG	DEG	DEG	±DEG
33.75	34.55	-0.80	4.37
67.5	69.22	-1.72	8.82
101.25	102.50	-1.25	7.47
135	135.56	-0.56	3.05
168.75	168.43	0.32	1.42
202.5	201.93	0.57	2.17
236.25	237.74	-1.49	7.46
270	271.77	-1.77	8.29
303.75	304.88	-1.13	4.70
337.5	338.03	-0.53	0.90

QA/QC Approval: Cameron Kelly

Date: 12/20/24

7309-A Grove Road Frederick, MD 21740 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pml-rf.com

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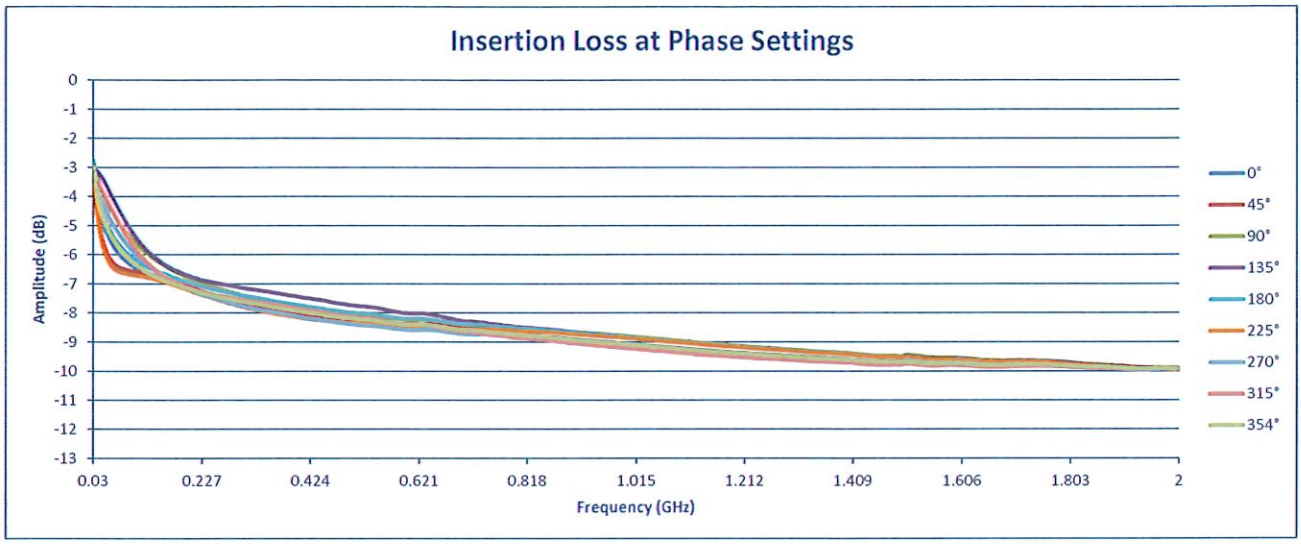

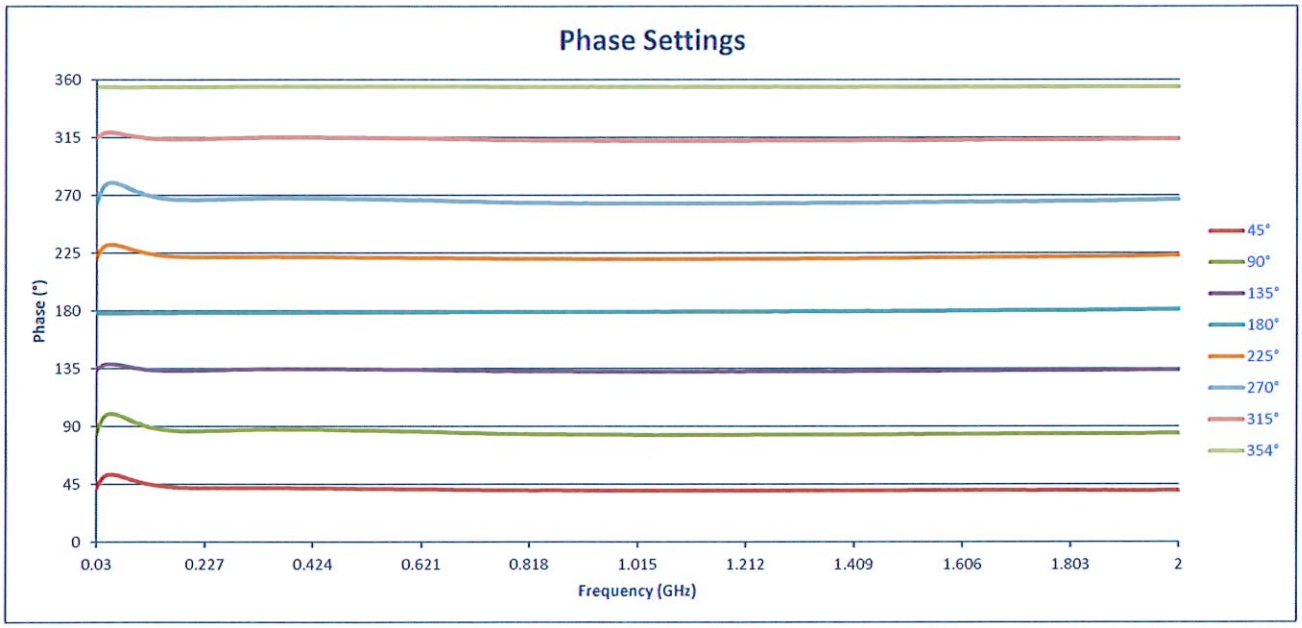

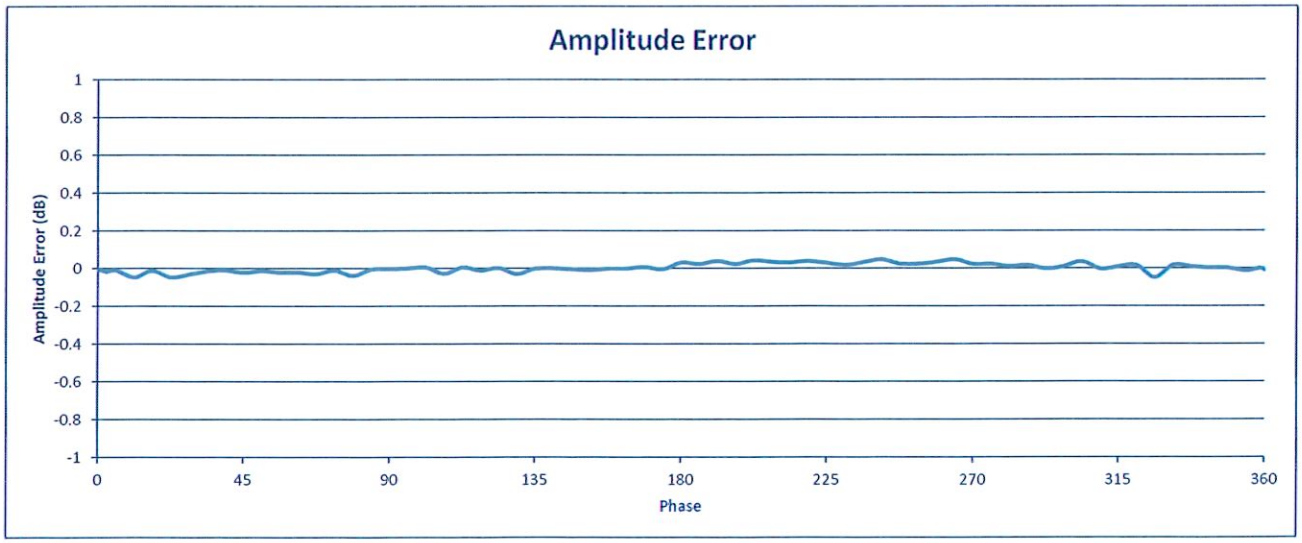

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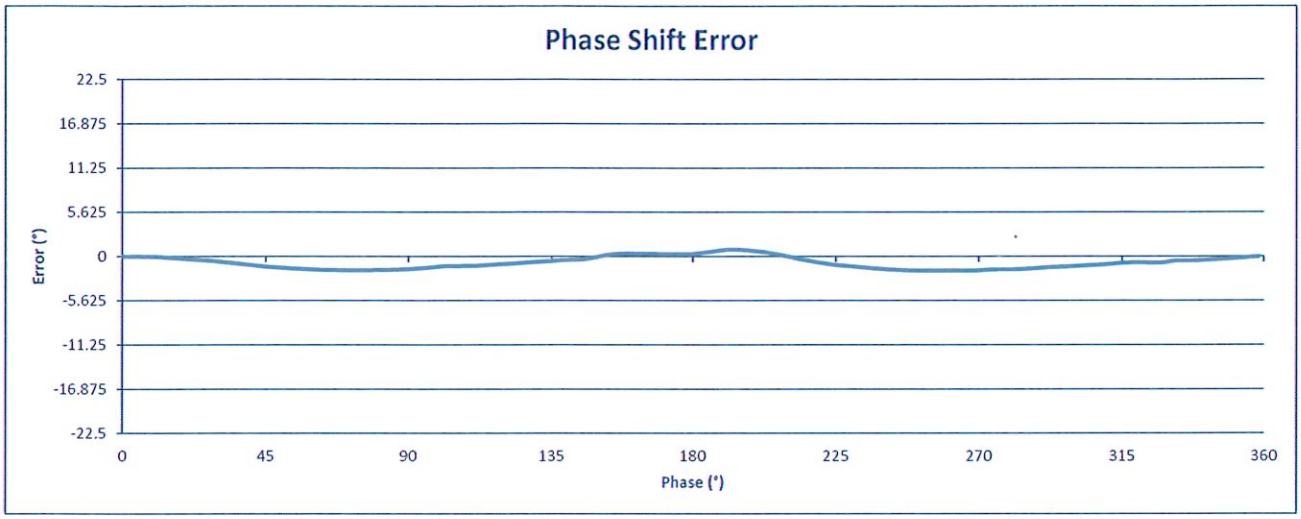

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