

**SUMMARY TEST DATA
ON
PS-500M2G-10B-SFF-MIL-SM**

Customer: _____
Job No: _____
Model No: PS-500M2G-10B-SFF-MIL-SM
Serial No: PL41012/2324

Tested By: K. Mansfield
Date: Monday, February 5, 2024
Temp: +25°C
Drawing No: 27645660 Rev: A1

Data Taken at -10 dBm Input Power

Test Item No.	Parameters	Specified Value	Measured Value	QA QC
1	Frequency Range:	0.5 to 2 GHz	0.5 to 2 GHz	<i>PMI QA1</i>
2	Control:	10 BIT TTL	Pass	
3	Insertion Loss:	13 dB Max.	8 dB See Plot	
4	Phase Shift:	360° Typ.	359.9°	
5	Amplitude Error:	±1.0 dB Max.	±0.07 dB See Plot	
6	Phase Shift Error:	±5° Max.	+0.1° -0.6° See Plot	
7	Switching Speed:	500 ns Max.	See Typical Characteristics	
8	Spurious:	-60 dBc Max.	See Typical Characteristics	
8	Power Supply:	+15 V @ 250 mA Typ. -15 V @ 20 mA Typ.	+15 V @ 177 mA -15 V @ 32 mA	<i>PMI QA1</i>

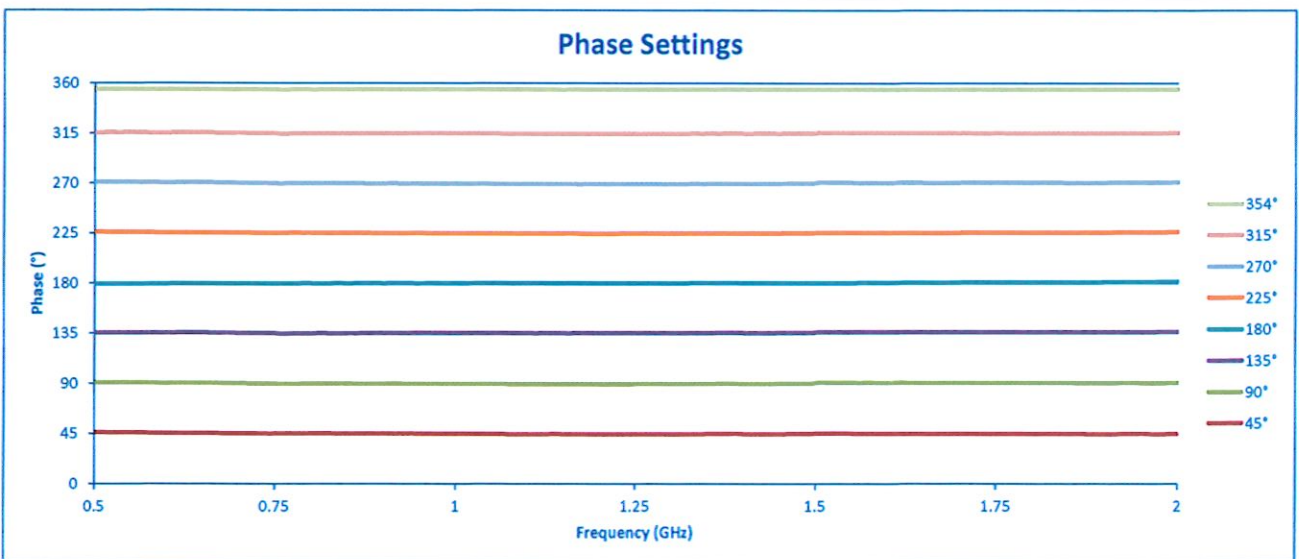
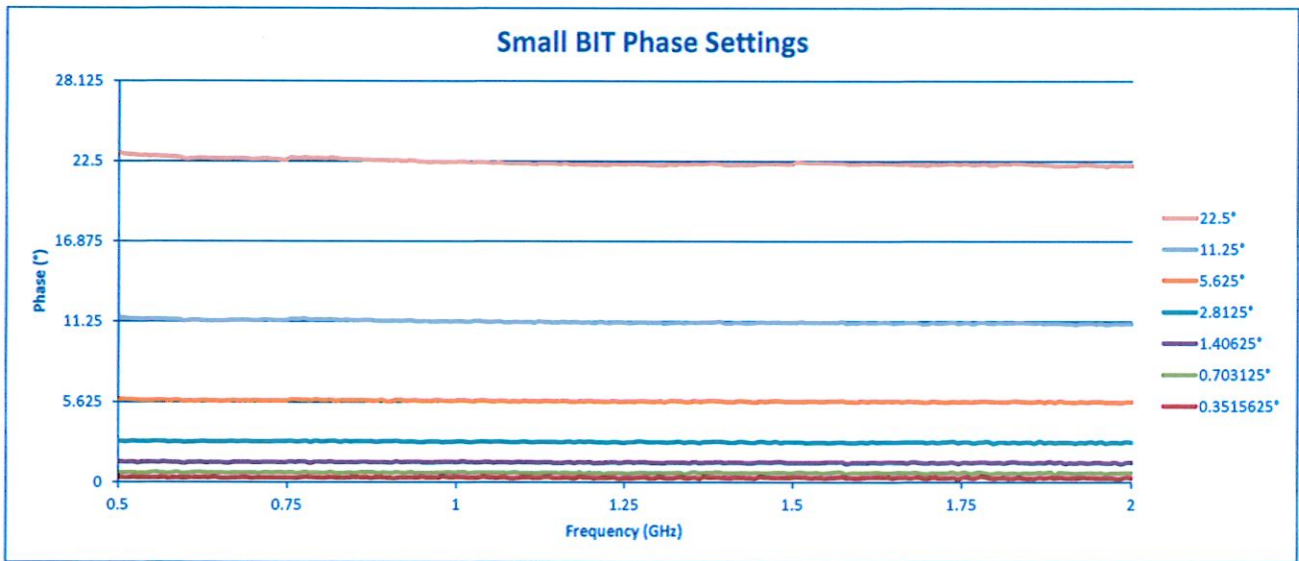
Programed Phase Shift	Phase Shift	Accuracy	Flatness
DEG	DEG	DEG	±DEG
0.3515625	0.27	0.08	0.09
0.703125	0.64	0.06	0.08
1.40625	1.35	0.06	0.10
2.8125	2.81	0.01	0.10
5.625	5.66	-0.04	0.12
11.25	11.27	-0.02	0.26
22.50	22.58	-0.08	0.46
45.00	45.11	-0.11	0.88
90.00	90.18	-0.18	0.81
180.00	180.47	-0.47	0.94

Programed Phase Shift	Phase Shift	Accuracy	Flatness
DEG	DEG	DEG	±DEG
33.75	33.81	-0.06	0.68
67.50	67.60	-0.10	1.06
101.25	101.49	-0.24	0.84
135.00	135.46	-0.46	0.81
168.75	169.31	-0.56	0.97
202.50	202.84	-0.34	0.72
236.25	236.44	-0.19	1.04
270.00	269.99	0.01	0.95
303.75	303.66	0.09	0.70
337.50	337.38	0.12	0.31

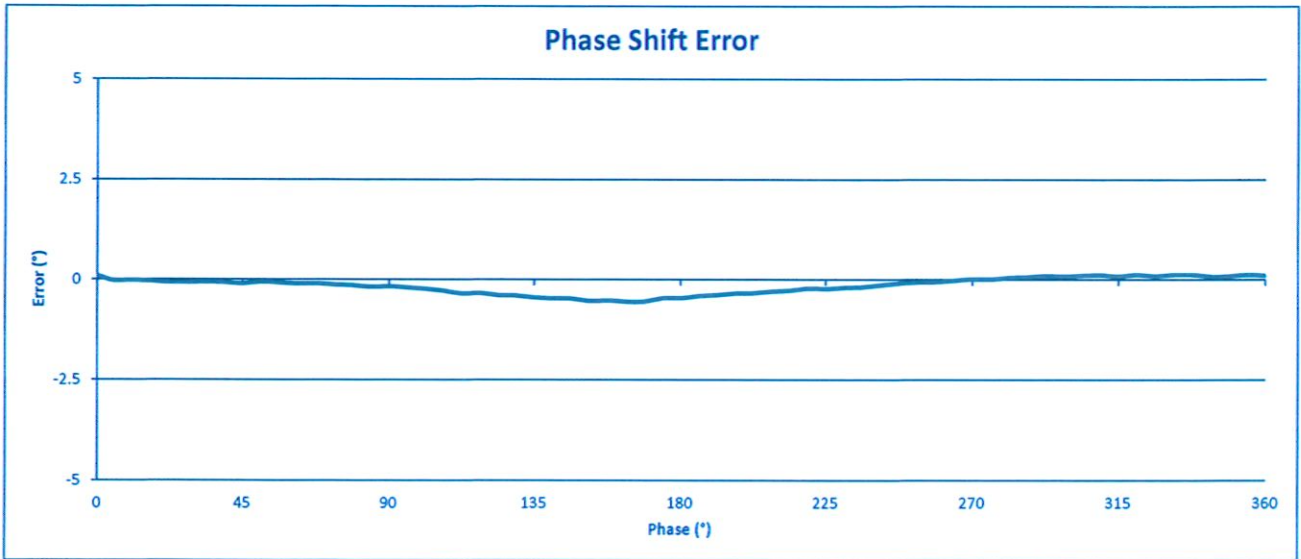
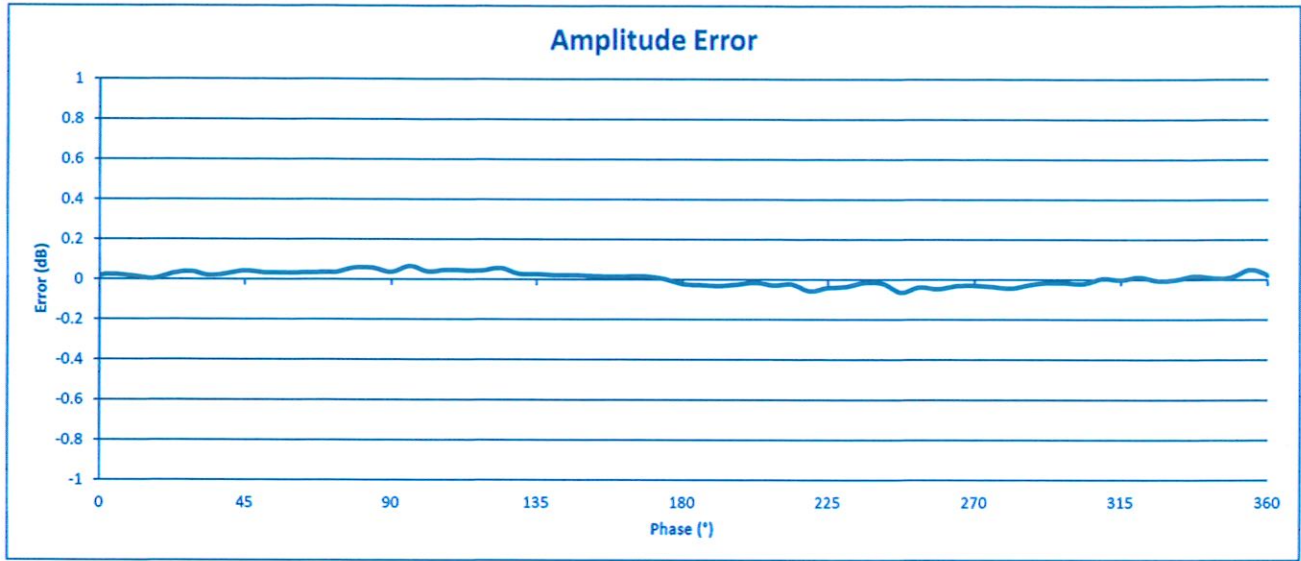
QA/QC Approval: 

PMI QA1

Date: 2/5/24



**SUMMARY TEST DATA
ON
PS-500M2G-10B-SFF-MIL-SM**



**SUMMARY TEST DATA
ON
PS-500M2G-10B-SFF-MIL-SM**

Customer: Shoshin, Japan
 Job No: 20240008-R
 Model No: PS-500M2G-10B-SFF-MIL-SM
 Serial No: PL41012/2324

Tested By: K. Mansfield
 Date: Monday, February 5, 2024
 Temp: -20°C
 Drawing No: 27645660 Rev: A1

Data Taken at -10 dBm Input Power

Test Item No.	Parameters	Specified Value	Measured Value	QA QC
1	Frequency Range:	0.5 to 2 GHz	0.5 to 2 GHz	PMI QA1
2	Control:	10 BIT TTL	Pass	
3	Insertion Loss:	13 dB Max.	7.1 dB See Plot	
4	Phase Shift:	360° Typ.	360°	
5	Amplitude Error:	±1.0 dB Max.	±0.42 dB See Plot	
6	Phase Shift Error:	±5° Max.	+5.8° -0.4° See Plot	
7	Switching Speed:	500 ns Max.	See Typical Characteristics	
8	Spurious:	-60 dBc Max.	See Typical Characteristics	
8	Power Supply:	+15 V @ 250 mA Typ. -15 V @ 20 mA Typ.	+15 V @ 177 mA -15 V @ 32 mA	PMI QA1

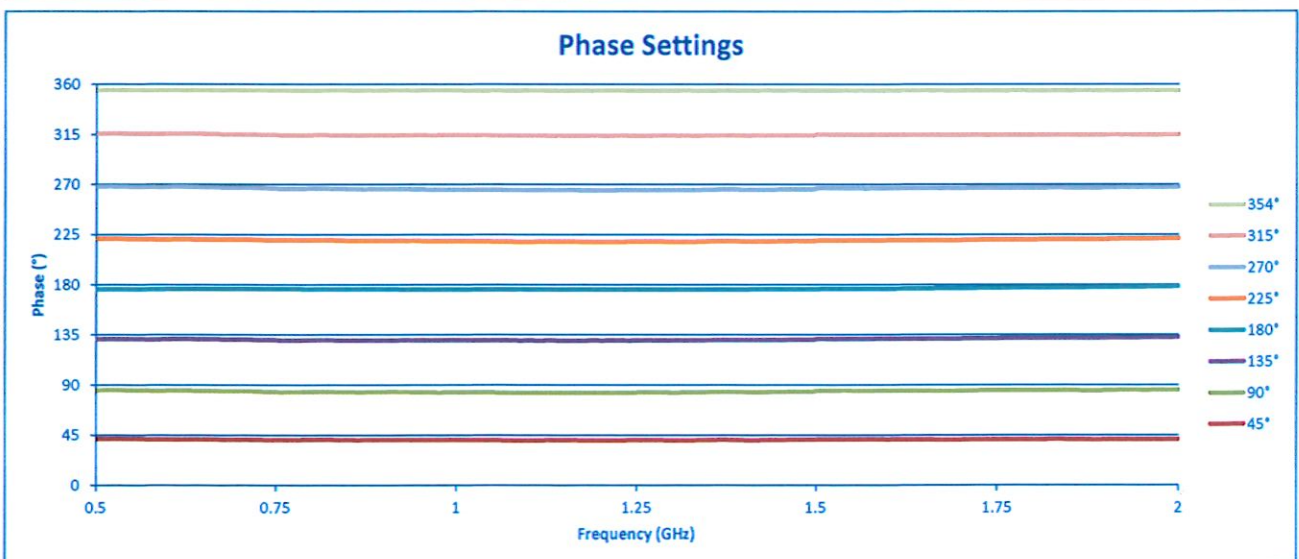
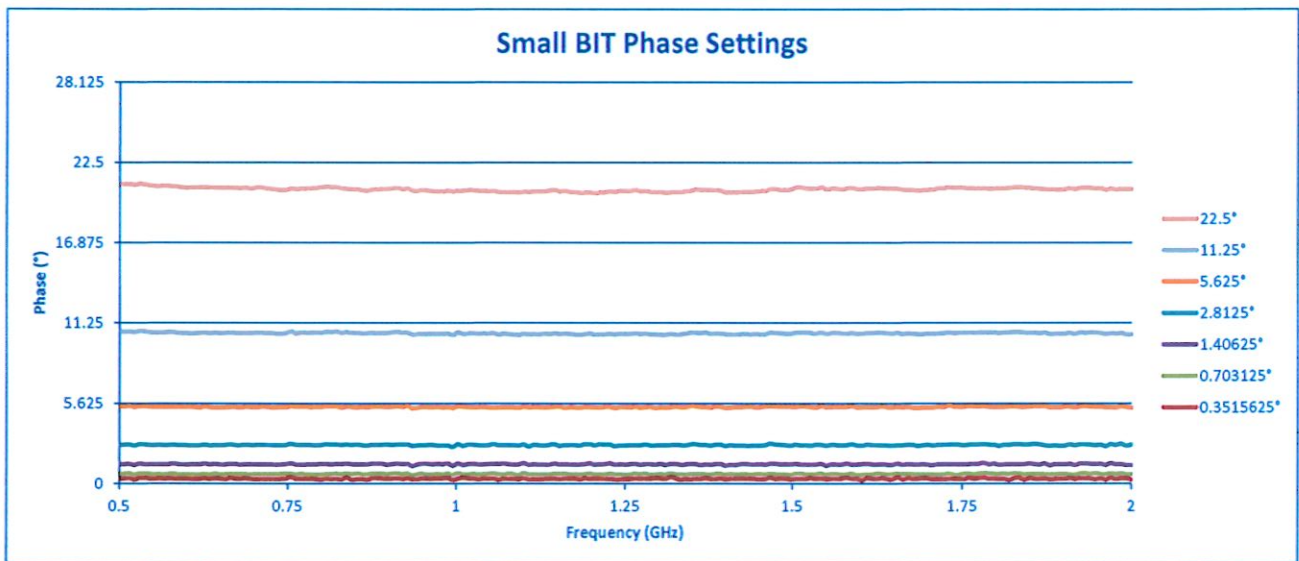
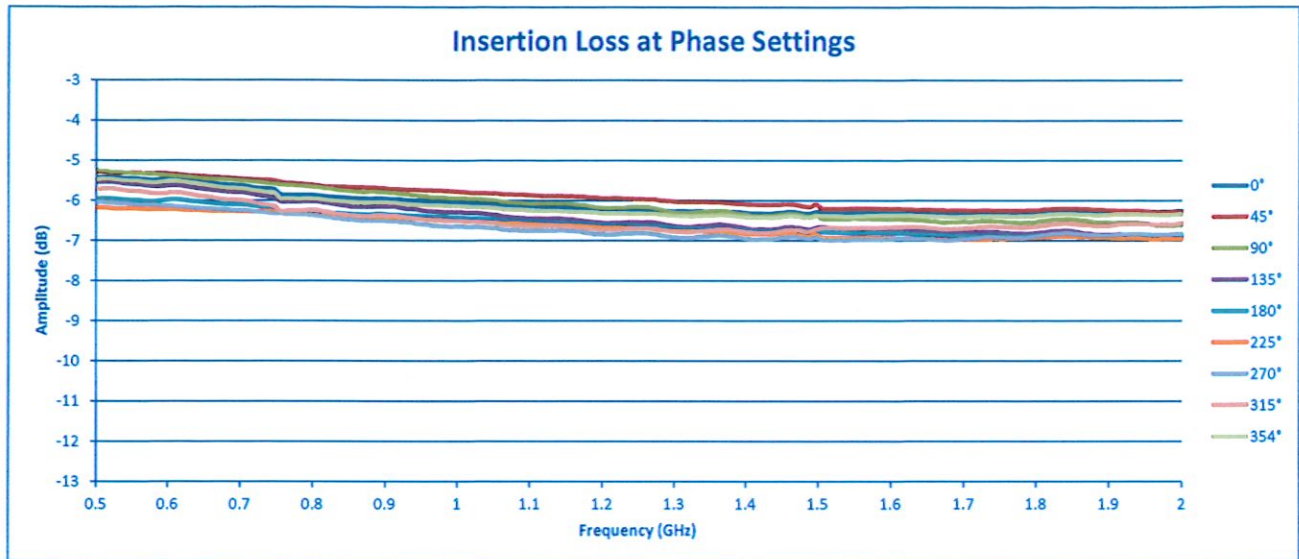
Programed Phase Shift	Phase Shift	Accuracy	Flatness
DEG	DEG	DEG	±DEG
0.3515625	0.33	0.02	0.12
0.703125	0.65	0.05	0.08
1.40625	1.33	0.08	0.11
2.8125	2.68	0.13	0.12
5.625	5.37	0.25	0.11
11.25	10.53	0.72	0.15
22.50	20.65	1.85	0.33
45.00	40.72	4.28	0.82
90.00	84.16	5.84	1.25
180.00	177.04	2.96	1.49

Programed Phase Shift	Phase Shift	Accuracy	Flatness
DEG	DEG	DEG	±DEG
33.75	30.55	3.20	0.57
67.50	62.05	5.45	1.24
101.25	95.56	5.69	1.37
135.00	131.33	3.67	1.57
168.75	165.82	2.93	1.50
202.50	198.47	4.03	1.49
236.25	231.00	5.25	1.72
270.00	266.40	3.60	1.79
303.75	302.86	0.89	1.28
337.50	337.90	-0.40	0.43

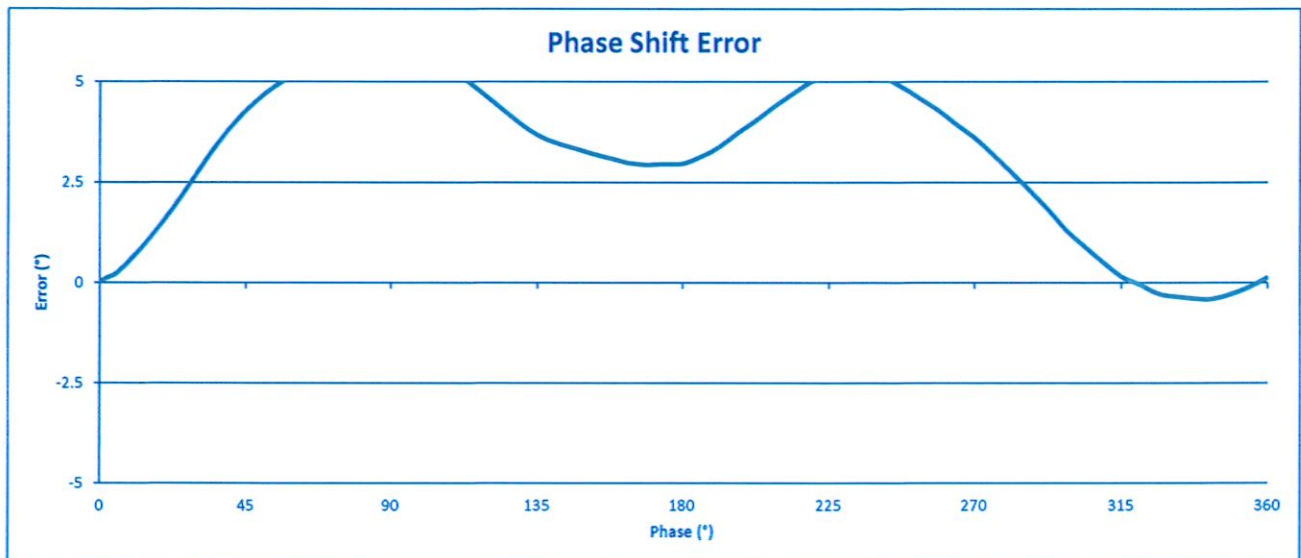
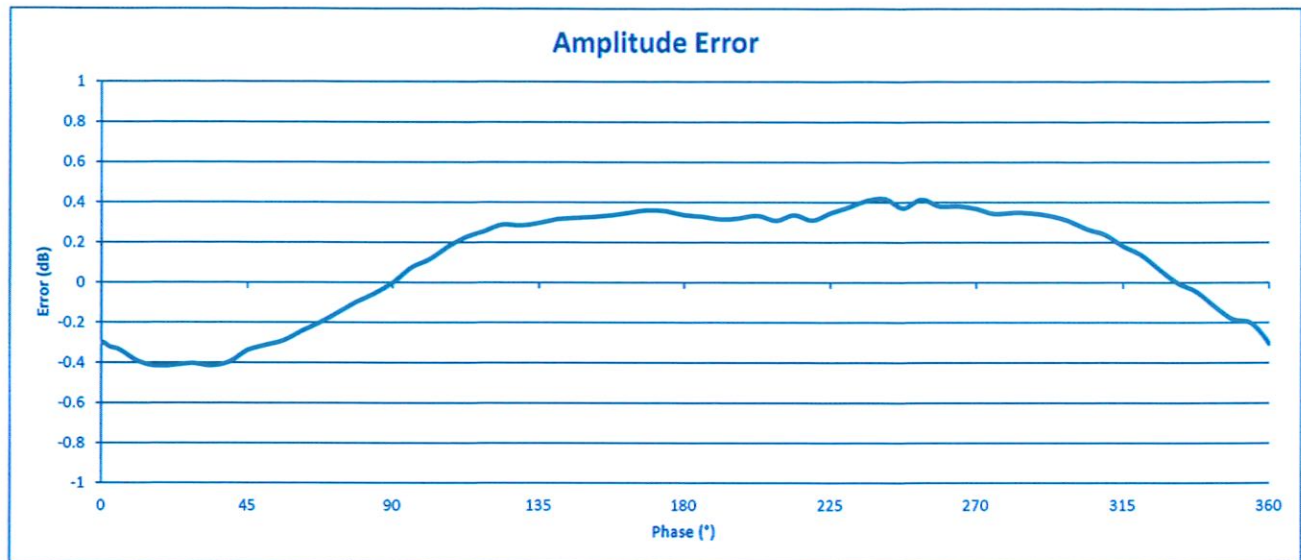
QA/QC Approval: 

PMI
QA1

Date: 2/5/24



**SUMMARY TEST DATA
ON
PS-500M2G-10B-SFF-MIL-SM**





**SUMMARY TEST DATA
ON
PS-500M2G-10B-SFF-MIL-SM**

Customer: Shoshin, Japan
 Job No: 20240008-R
 Model No: PS-500M2G-10B-SFF-MIL-SM
 Serial No: PL41012/2324

Tested By: K. Mansfield
 Date: Monday, February 5, 2024
 Temp: +85°C
 Drawing No: 27645660 Rev: A1

Data Taken at -10 dBm Input Power

Test Item No.	Parameters	Specified Value	Measured Value	QA QC
1	Frequency Range:	0.5 to 2 GHz	0.5 to 2 GHz	PMI QA1
2	Control:	10 BIT TTL	Pass	
3	Insertion Loss:	13 dB Max.	10.7 dB See Plot	
4	Phase Shift:	360° Typ.	360°	
5	Amplitude Error:	±1.0 dB Max.	±1 dB See Plot	
6	Phase Shift Error:	±5° Max.	+0.9° -12.6° See Plot	
7	Switching Speed:	500 ns Max.	See Typical Characteristics	
8	Spurious:	-60 dBc Max.	See Typical Characteristics	
8	Power Supply:	+15 V @ 250 mA Typ. -15 V @ 20 mA Typ.	+15 V @ 177 mA -15 V @ 32 mA	PMI QA1

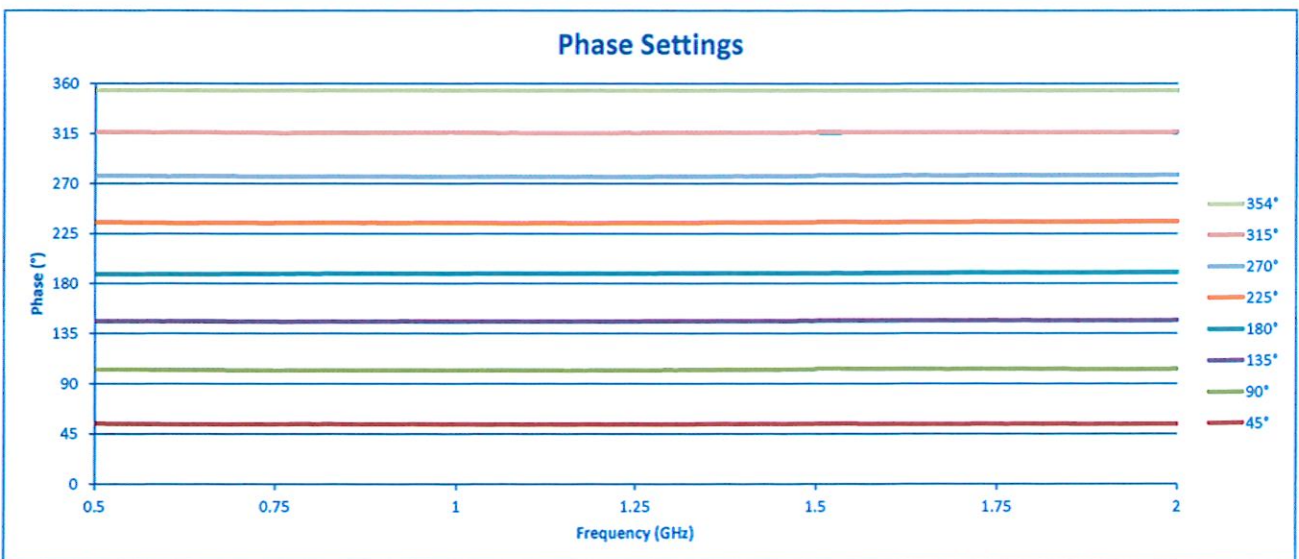
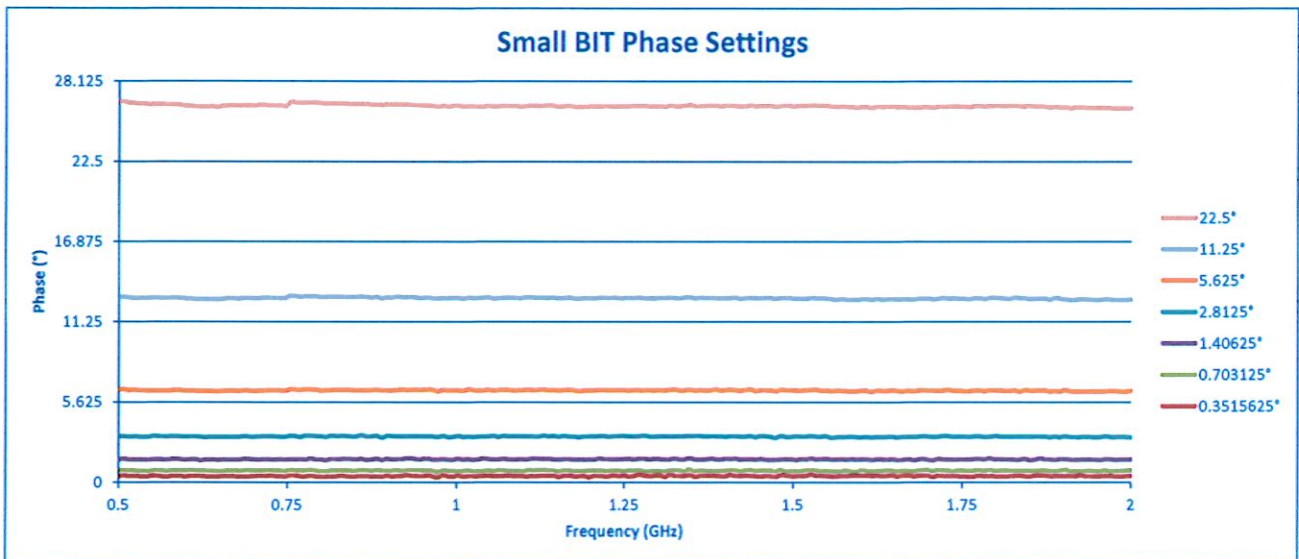
Programed Phase Shift	Phase Shift	Accuracy	Flatness
DEG	DEG	DEG	±DEG
0.3515625	0.41	-0.05	0.10
0.703125	0.82	-0.11	0.10
1.40625	1.60	-0.19	0.08
2.8125	3.21	-0.39	0.09
5.625	6.41	-0.79	0.11
11.25	12.91	-1.66	0.16
22.50	26.44	-3.94	0.24
45.00	53.57	-8.57	0.46
90.00	102.64	-12.64	0.82
180.00	189.29	-9.29	0.91

Programed Phase Shift	Phase Shift	Accuracy	Flatness
DEG	DEG	DEG	±DEG
33.75	40.16	-6.41	0.34
67.50	78.82	-11.32	0.63
101.25	113.74	-12.49	0.81
135.00	146.24	-11.24	0.74
168.75	178.46	-9.71	0.88
202.50	211.87	-9.37	0.85
236.25	245.91	-9.66	0.93
270.00	276.92	-6.92	0.95
303.75	306.01	-2.26	0.65
337.50	336.64	0.86	0.29

QA/QC Approval:

PMI
QA1

Date: 2/5/24



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