



**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

**PMI MODEL NUMBER PS-4G10G-8B-SFF IS A 8-BIT DIGITAL PHASE SHIFTER
4.0 TO 10.0 GHz FREQUENCY RANGE**



January 26, 2016

Tested & Reported By:
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PS-4G10G-8B-SFF**

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Product Feature

DESCRIPTION

PMI MODEL NUMBER PS-4G10G-8B-SFF IS A 8-BIT DIGITAL PHASE SHIFTER THAT OPERATES OVER THE 4.0 GHz TO 10.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS 360 DEGREES PHASE SHIFT WITH A LSB OF 1.4 DEGREES.

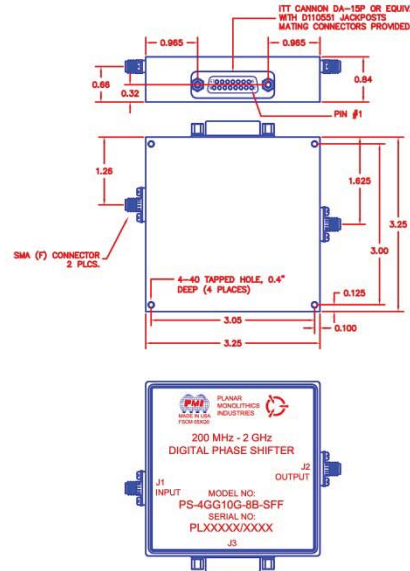
SPECIFICATIONS

- FREQUENCY RANGE: 4.0 TO 10.0 GHz
- CONTROL: 8 BIT TTL
- INSERTION LOSS: 10.5dB TYP
- PHASE SHIFT: 360°
- PHASE ACCURACY: ±0.5° TYP.
- SWITCHING SPEED: 500ns MAX.
- POWER SUPPLY:
 - +V: +15V
 - V: -15V
- SIZE: (L) 3.25" x (W) 3.25" x (H) 0.84"
- CONNECTORS:
 - RF: SMA FEMALE
 - CONTROL: 15 PIN SUBMINIATURE D (MALE) MATING CONNECTOR SUPPLIED
- FINISH: BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

ELECTRICAL CONNECTOR PIN ASSIGNMENTS	
PIN	FUNCTION
1	-VDC
2	+VDC
3	N/C
4	1.4° (LSB)
5	5.6°
6	45°
7	180.0° (MSB)
8	90°
9	0dB
10	N/C
11	22.0°
12	2.8°
13	11.3°
14	N/C
15	N/C

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	02/10/16	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO + 85°C (OPERATING), -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES: X.XX ±0.020, X.XXX ±0.010

PLANAR MONOLITHICS INDUSTRIES, INC.
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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	<i>GRP</i>	02/10/16	PRODUCT FEATURE PS-4G10G-8B-SFF		
CHECKED			4GHz-10GHz, 0°-360° PHASE SHIFTER		
ISSUED			SIZE	FSM NO.	DWG NO.
			A	05XQ0	27022642
			SCALE	N:S	SHEET 1 OF 1

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**TYPICAL CHARACTERISTICS
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Summary Test Data

Data Taken at -10 dBm Input Power

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS/FAIL	QA QC
1	Frequency Range:	4 GHz – 10 GHz	4 GHz – 10 GHz	
2	Insertion Loss:	10.5 dB TYP.	8.0 dB	
3	Control:	8 Bit TTL	Pass	
4	VSWR:	Additional Parameter Added	2.4:1 Output VSWR 1.5:1 Input VSWR	
5	Phase Shift:	360° Typ	360°	
6	Amplitude Error:	±1 dB Typ.	± 0.1 dB	
7	Phase Accuracy:	±0.5° TYP.	± 0.35 DEG	
8	Switching Speed:	500 ns MAX	< 250 ns	
9	DC Supply:	+15VDC -15VDC	+15 VDC @ 189mA -15 VDC @ 21mA	

Programed Phase Shift	Phase Shift	Accuracy of Phase Shift	Flatness
DEG	DEG	DEG	±DEG
1.41	1.22	0.19	0.08
2.81	2.53	0.28	0.11
5.63	5.25	0.37	0.19
11.25	10.96	0.29	0.26
22.50	22.10	0.40	0.49
45.00	44.87	0.13	0.81
90.00	89.83	0.17	1.63
180.00	180.05	-0.05	1.08
358.59	358.27	0.32	0.06

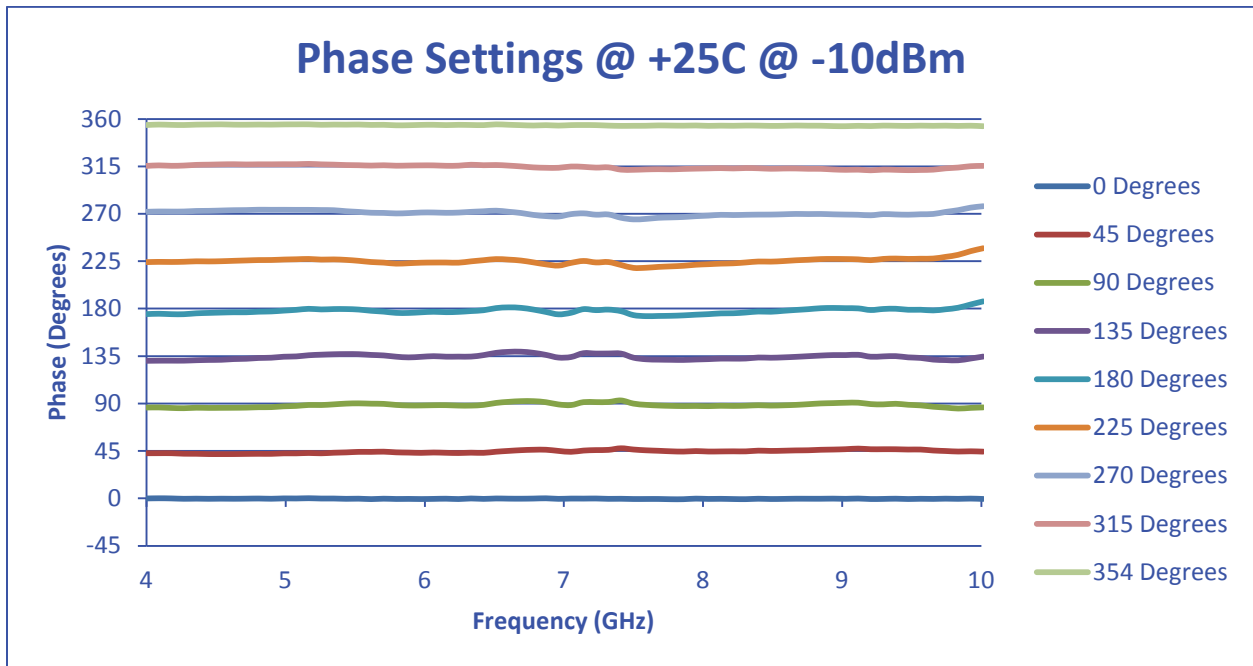
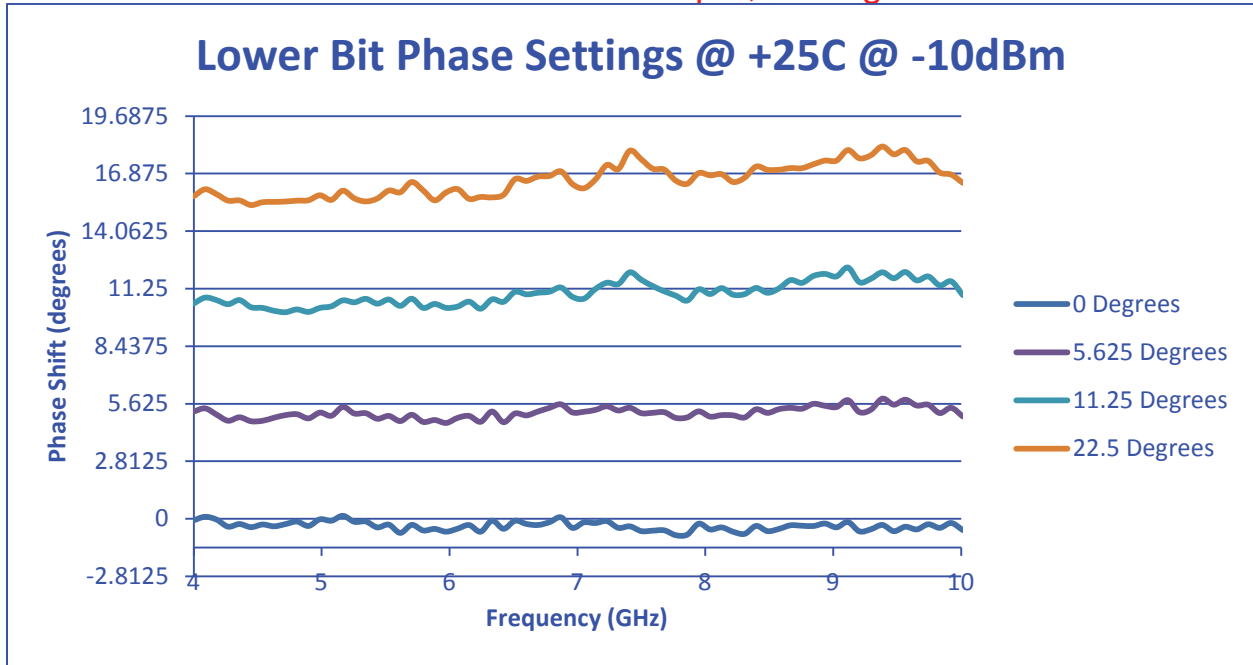
Programed Phase Shift	Phase Shift	Accuracy of Phase Shift	Flatness
DEG	DEG	DEG	±DEG
33.75	33.43	0.32	0.69
67.50	67.78	-0.28	1.20
101.25	101.24	0.01	1.73
135.00	134.67	0.33	1.46
168.75	168.83	-0.08	1.10
202.50	202.75	-0.25	1.15
236.25	236.23	0.02	1.75
270.00	270.04	-0.04	2.23
303.75	303.80	-0.05	1.81
337.50	337.28	0.22	0.68



**TYPICAL CHARACTERISTICS
ON
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Phase and Amplitude Performance at -10 dBm Input, 25°C

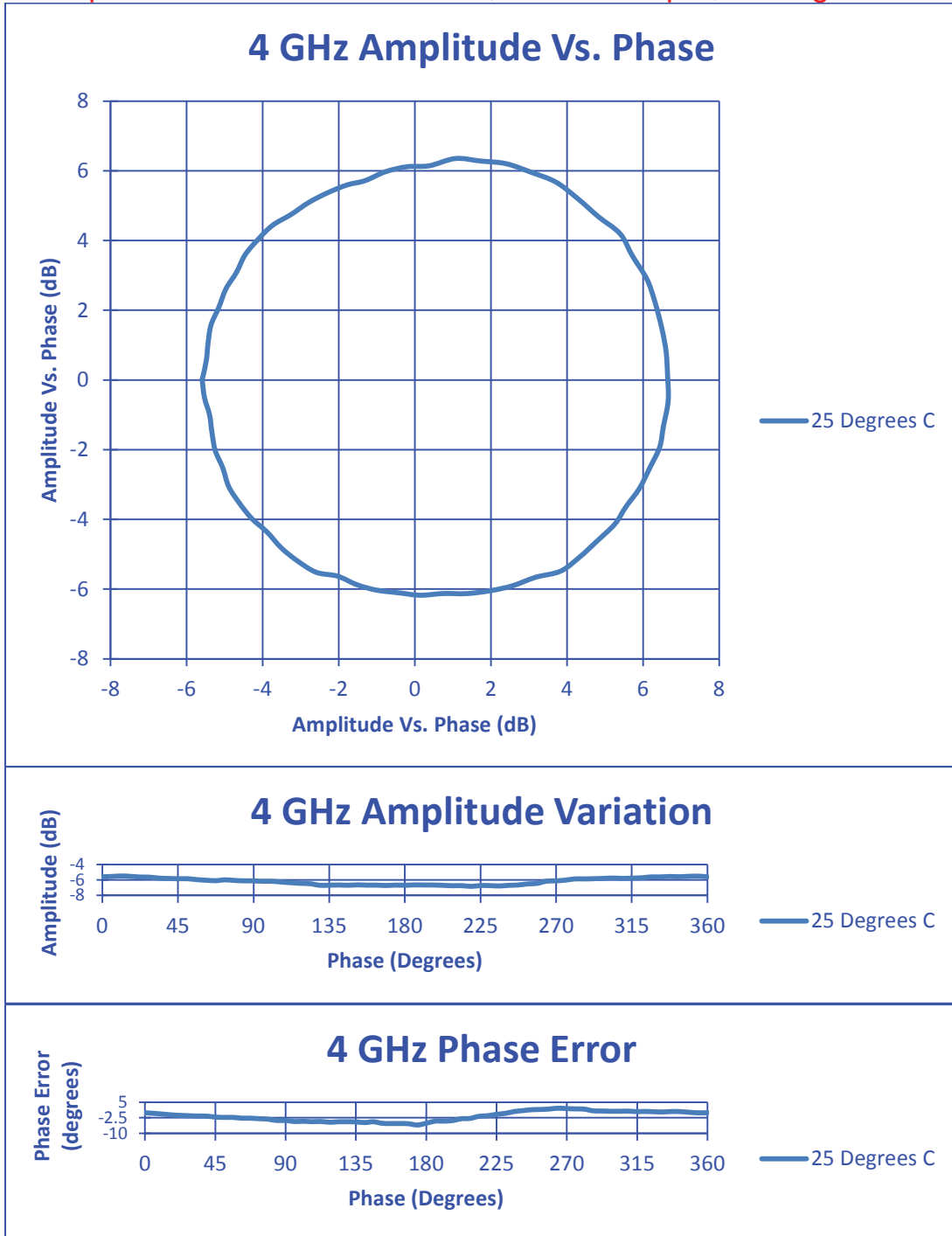
Phase Shift at -10 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

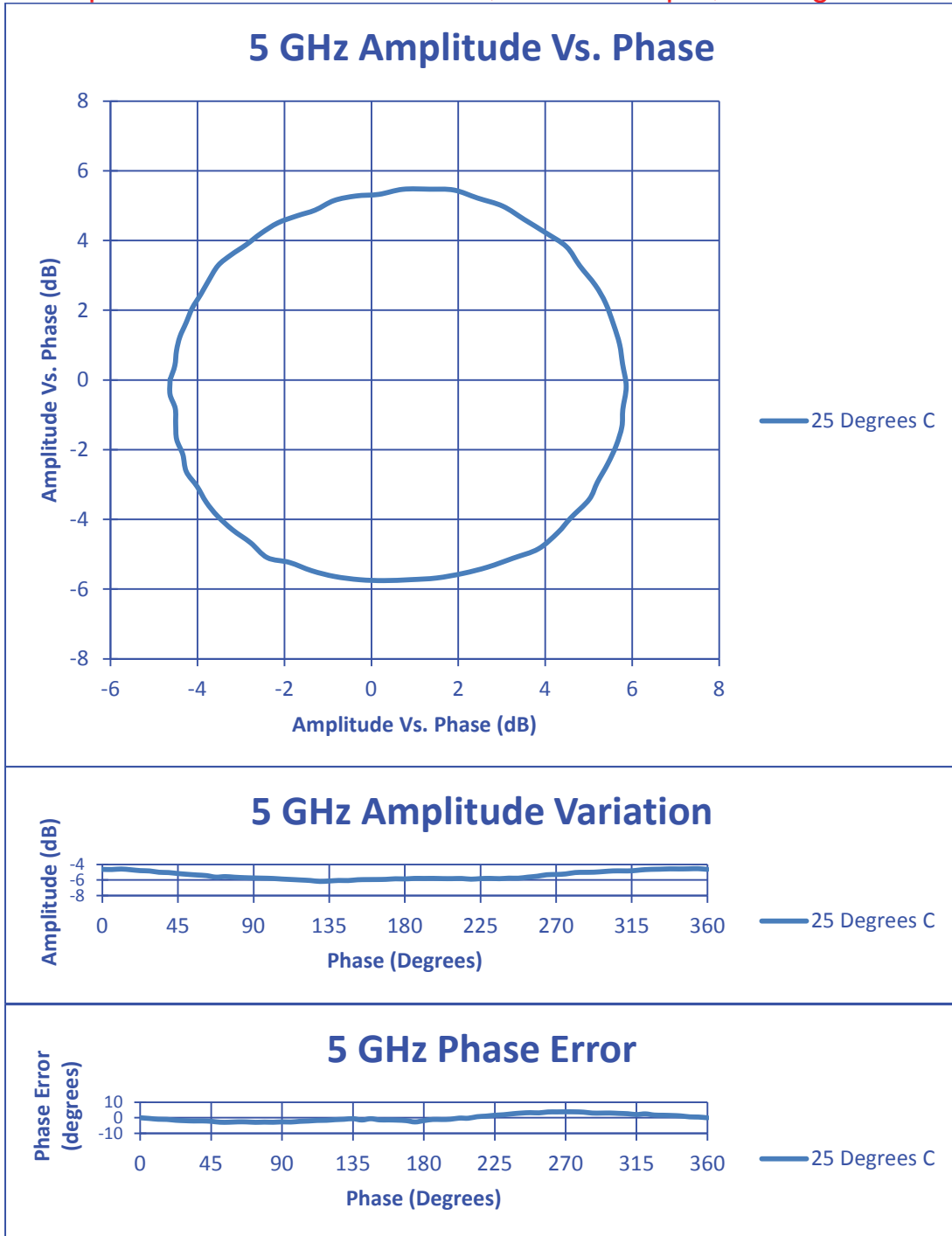
Amplitude and Phase at 4 GHz, -10 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

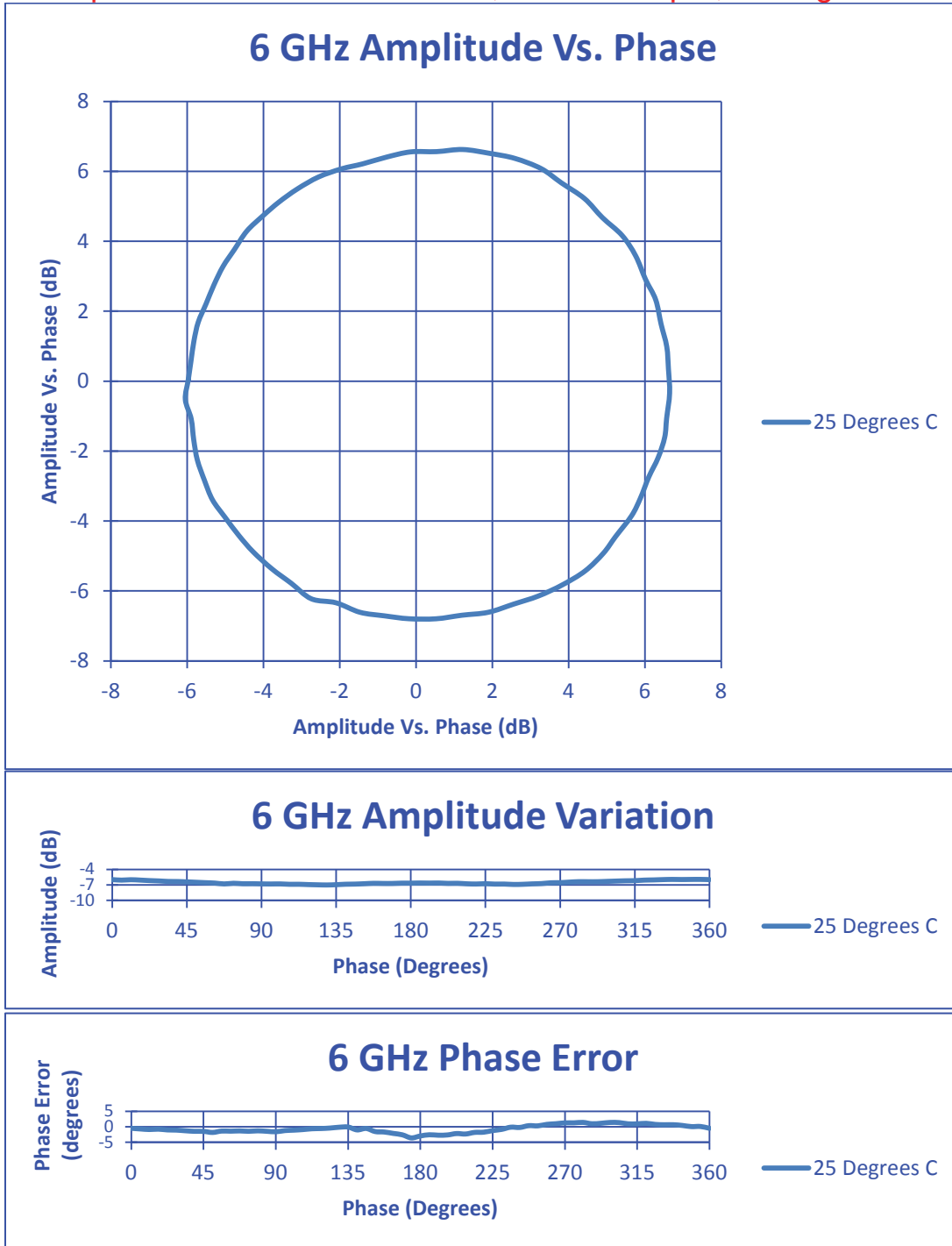
Amplitude and Phase at 5 GHz, -10 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

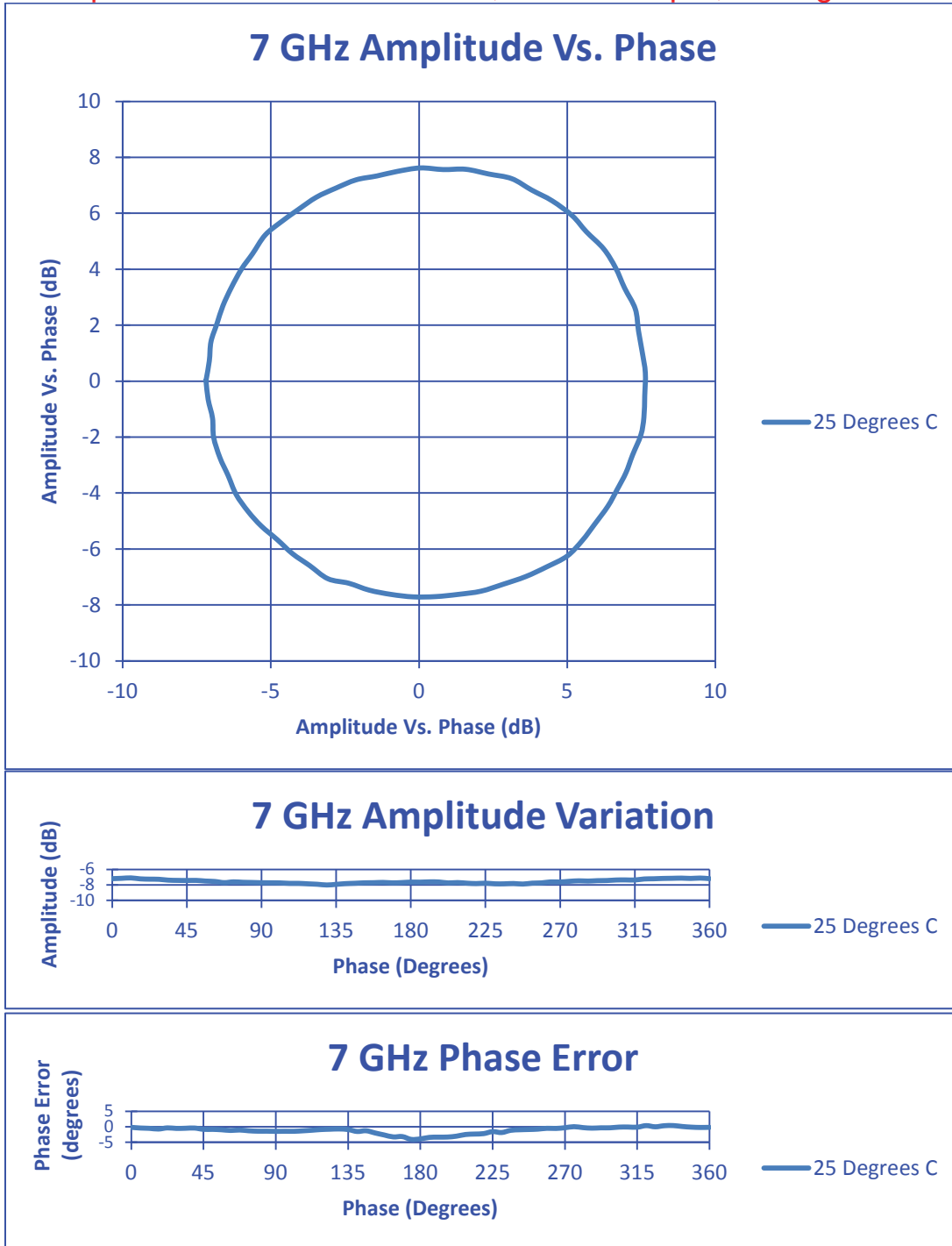
Amplitude and Phase at 6 GHz, -10 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 7 GHz, -10 dBm Input, 25 degrees C

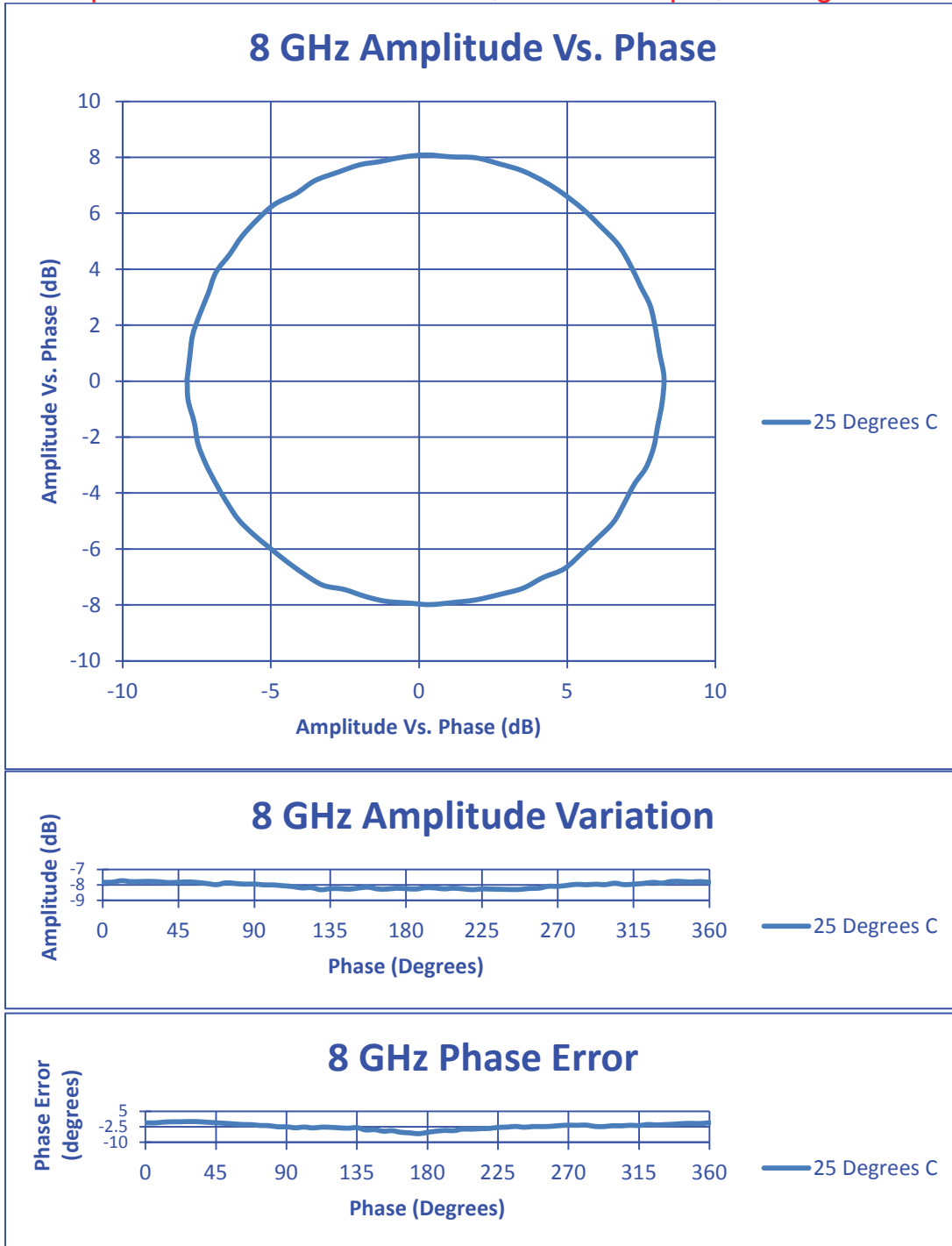


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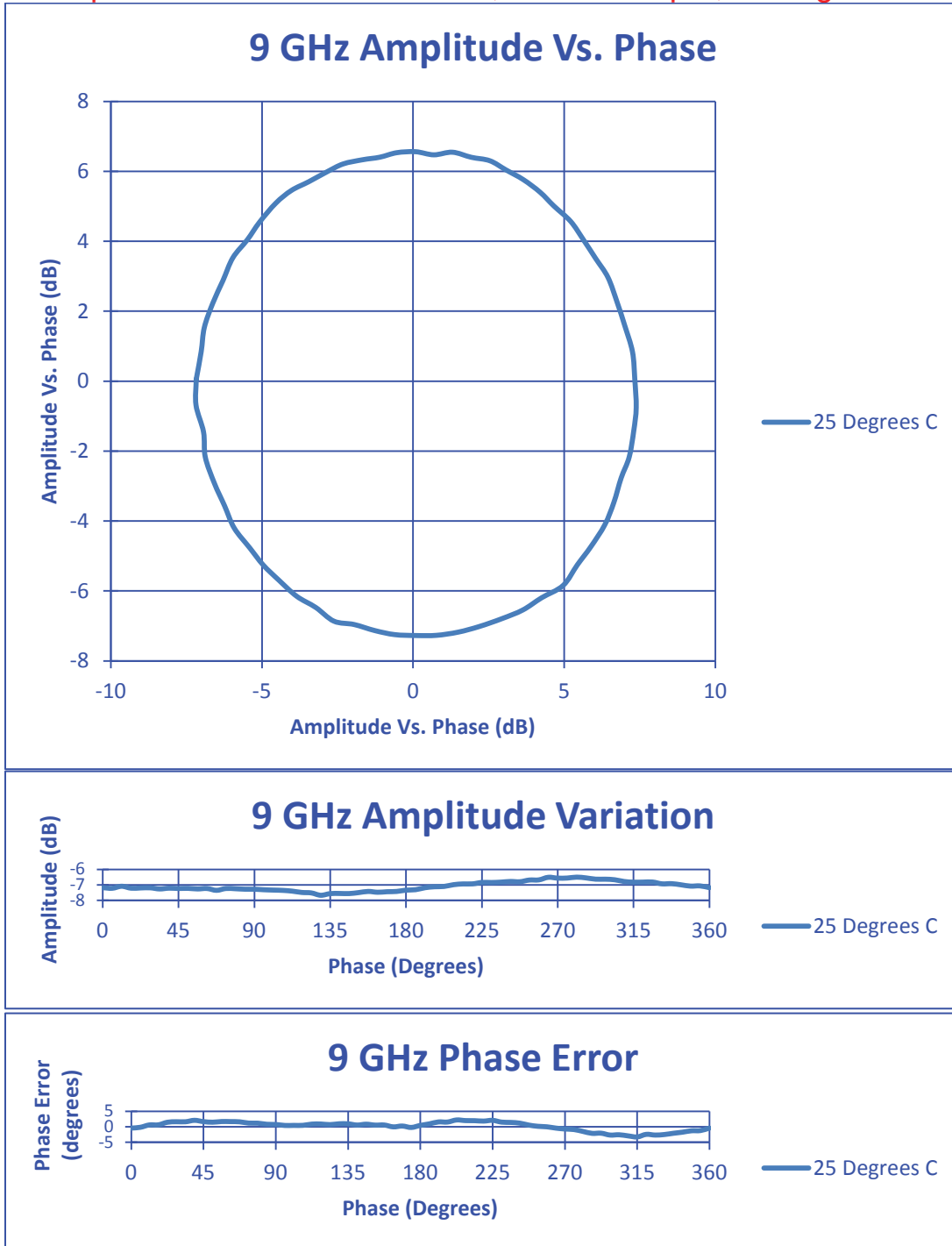
Amplitude and Phase at 8 GHz, -10 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

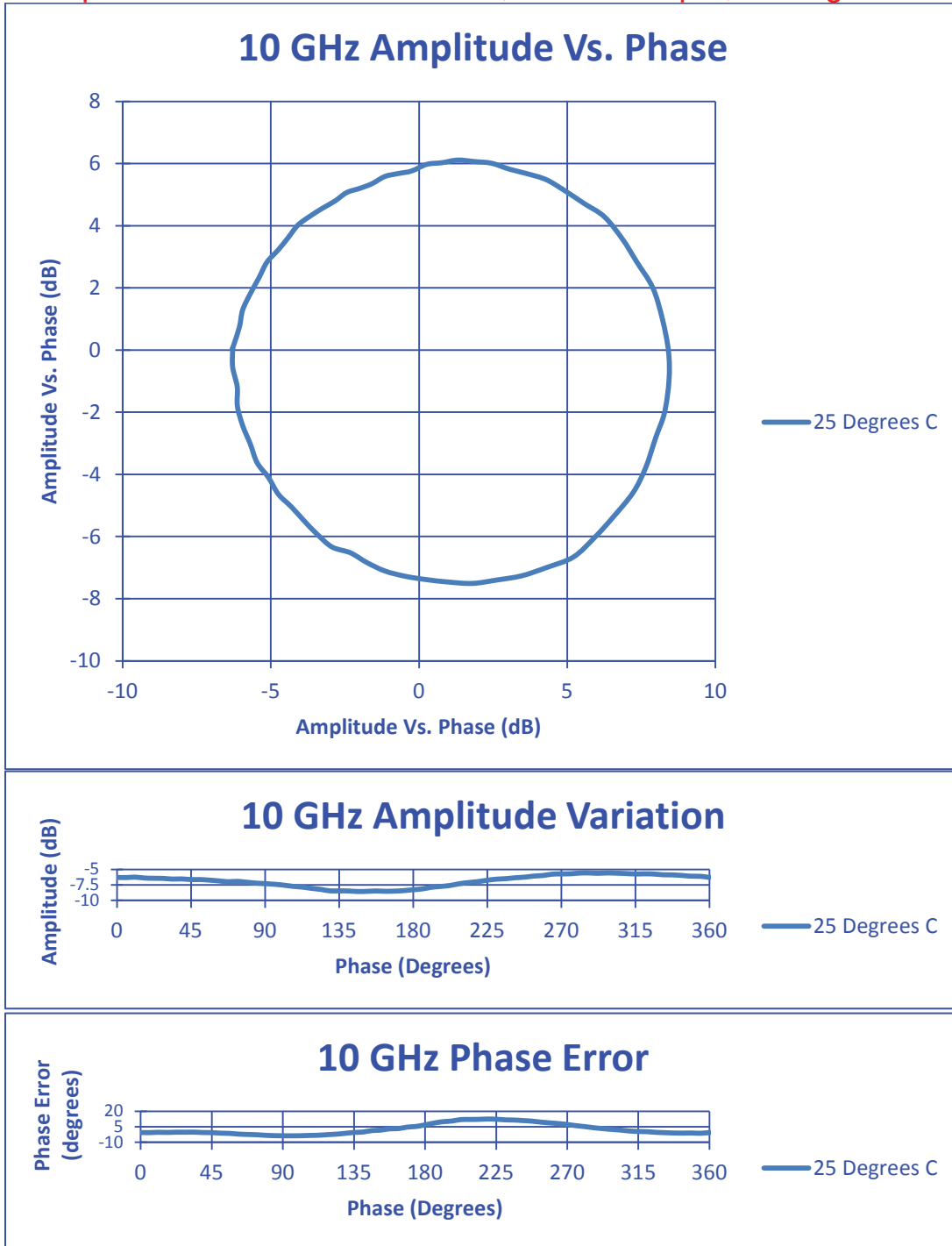
Amplitude and Phase at 9 GHz, -10 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 10 GHz, -10 dBm Input, 25 degrees C



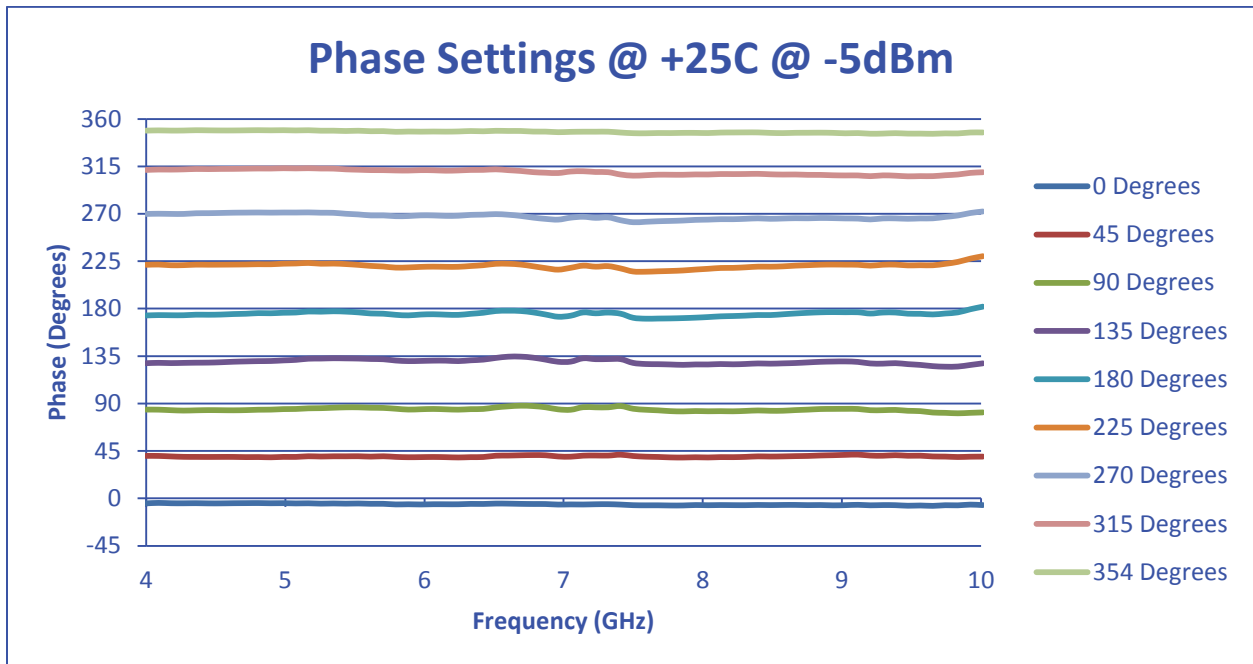
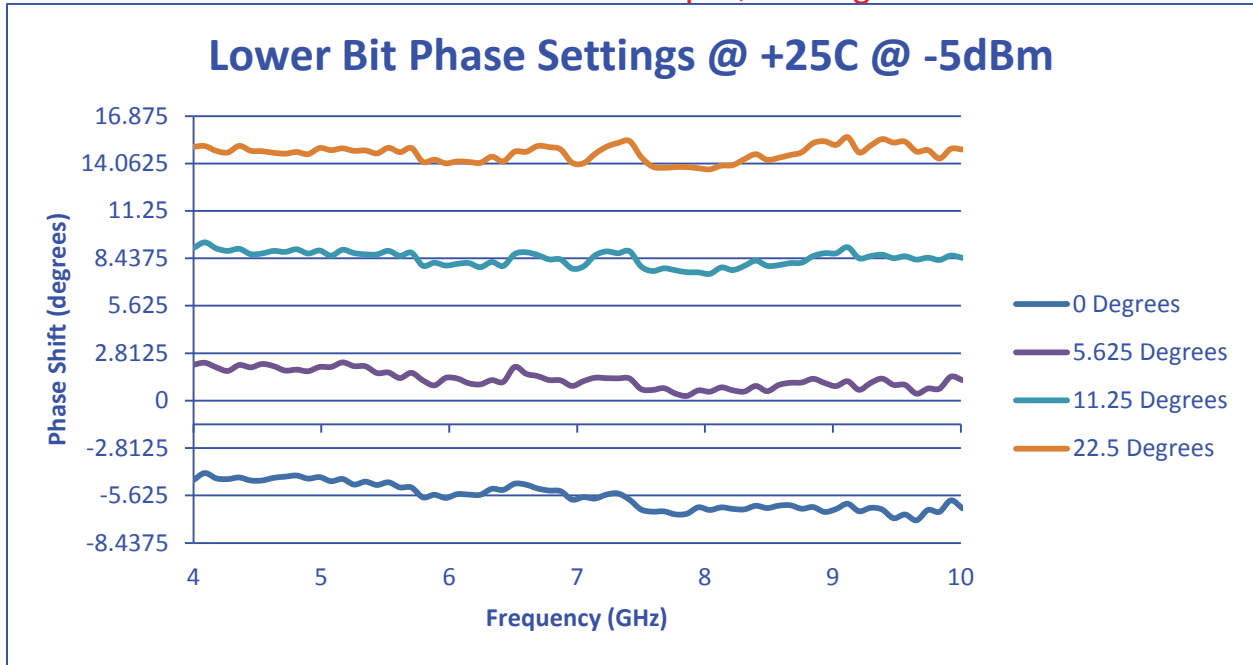
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Phase and Amplitude Performance at -5 dBm Input, 25°C

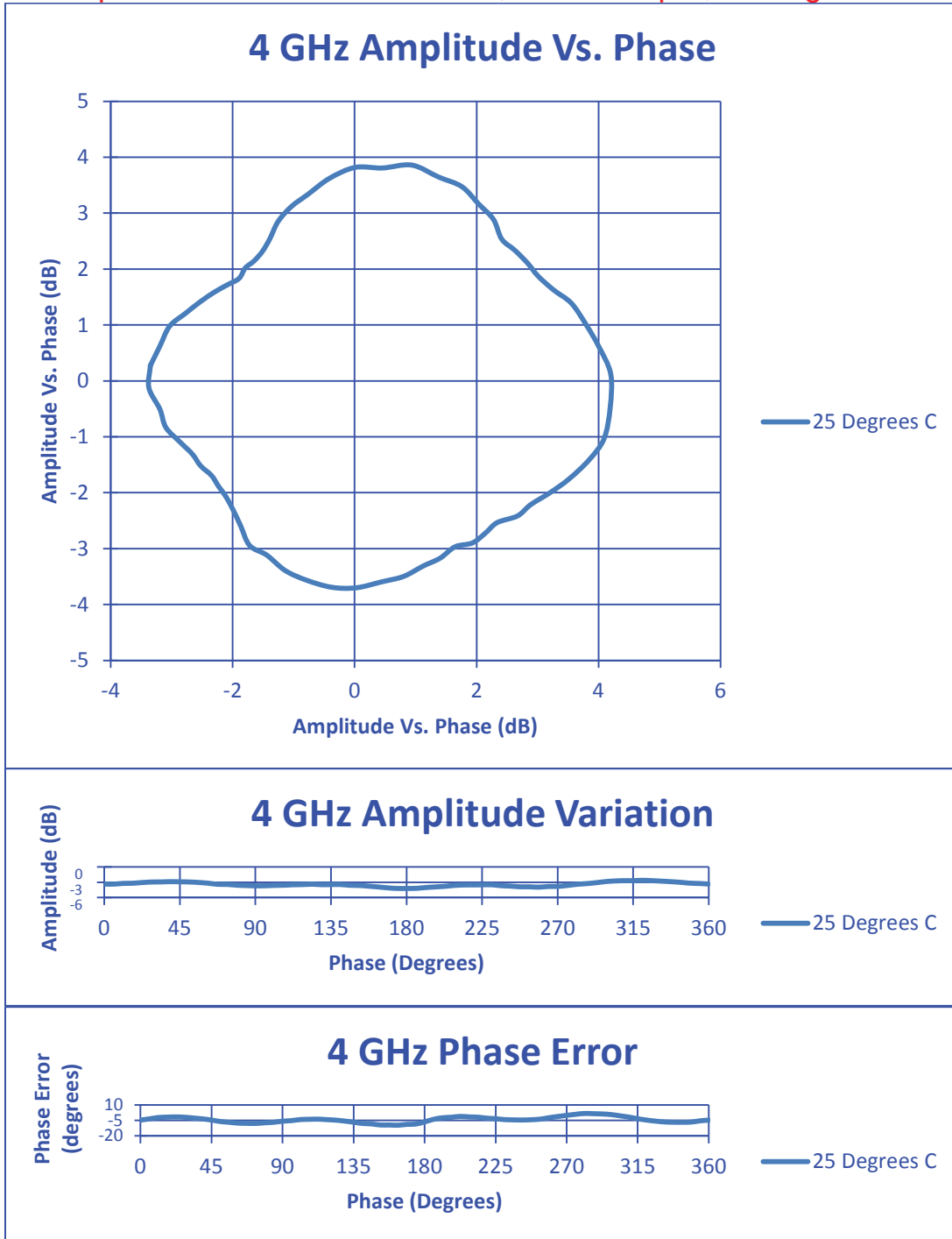
Phase Shift at -5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

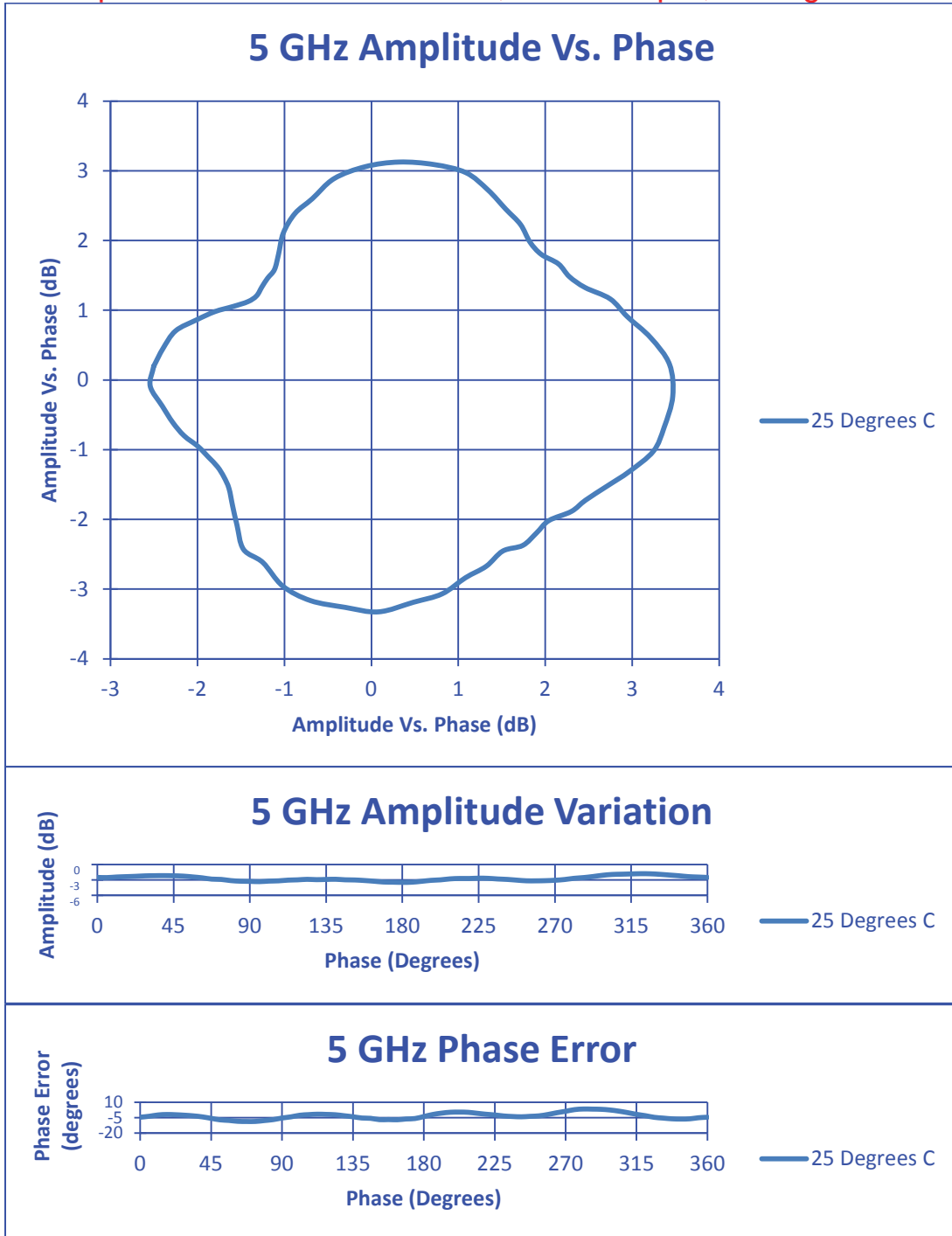
Amplitude and Phase at 4 GHz, -5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

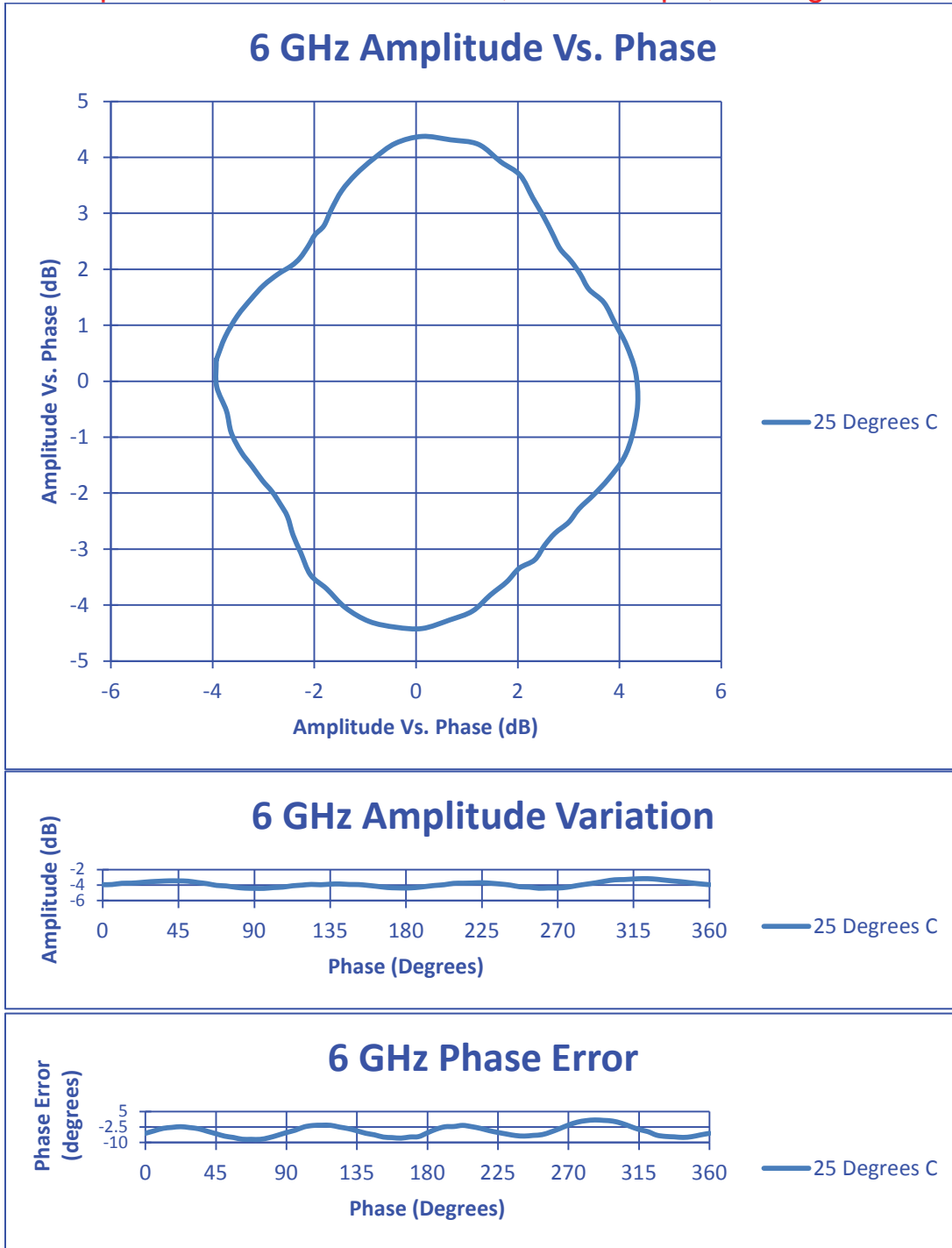
Amplitude and Phase at 5 GHz, -5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

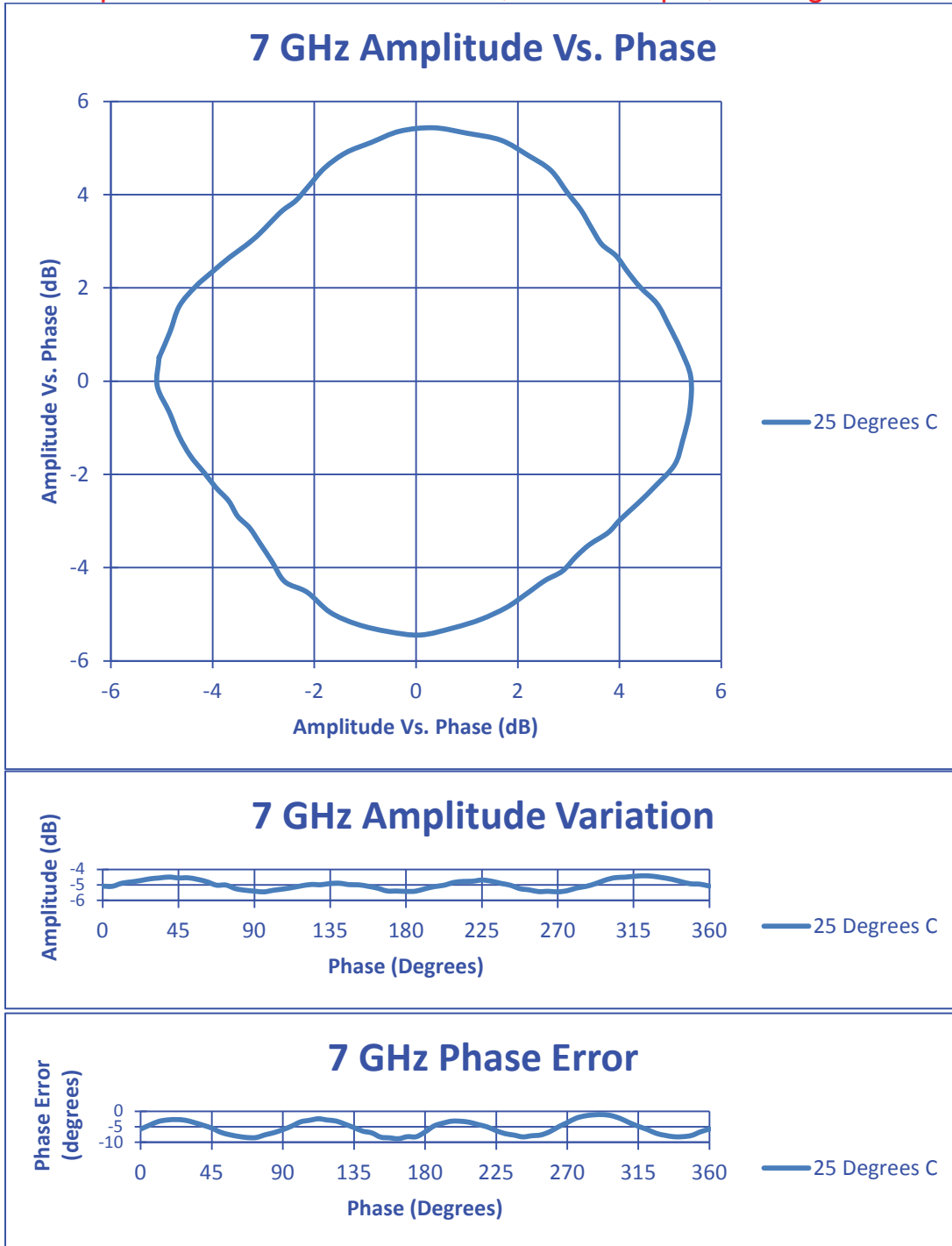
Amplitude and Phase at 6 GHz, -5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

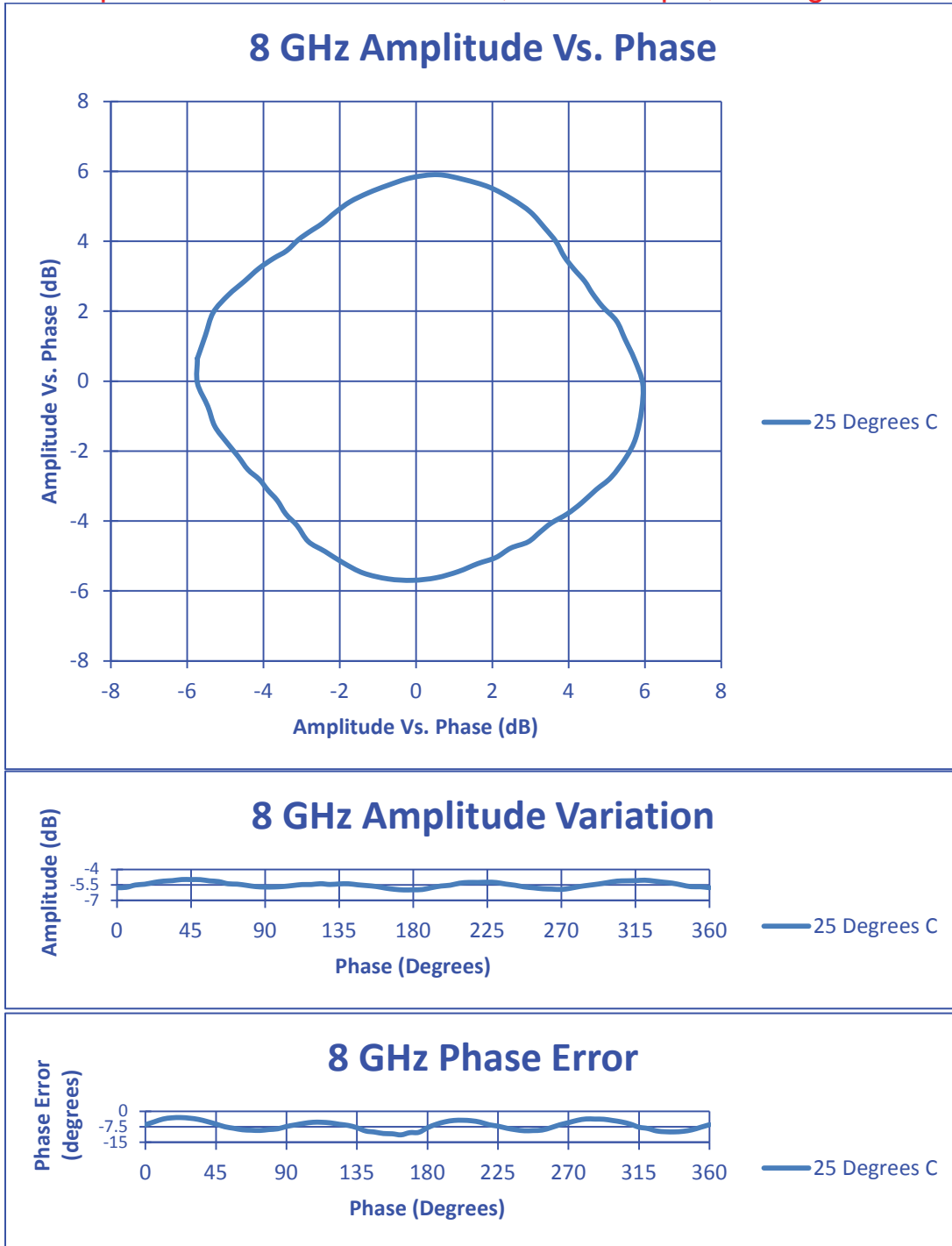
Amplitude and Phase at 7 GHz, -5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

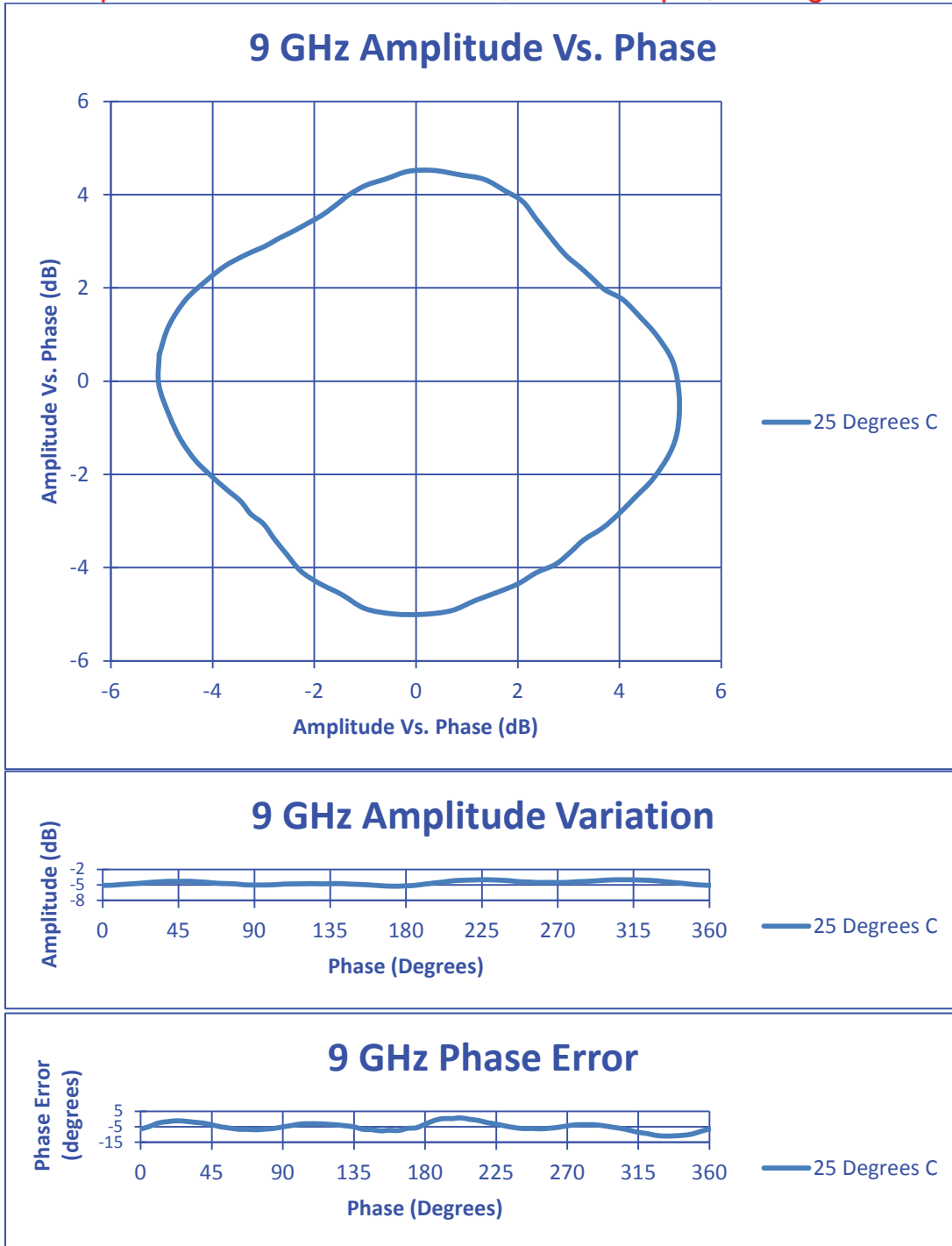
Amplitude and Phase at 8 GHz, -5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 9 GHz, -5 dBm Input, 25 degrees C

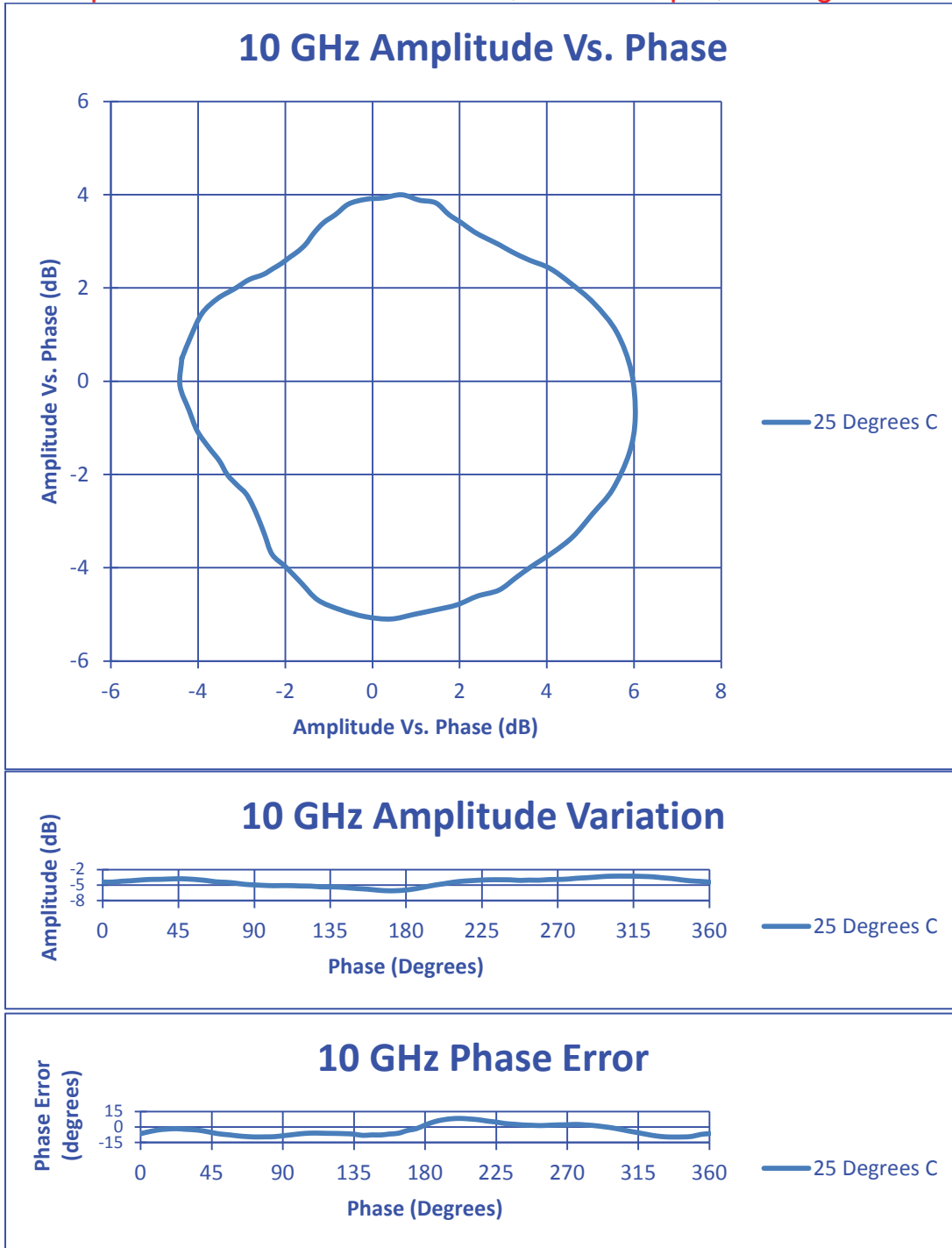


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Amplitude and Phase at 10 GHz, -5 dBm Input, 25 degrees C

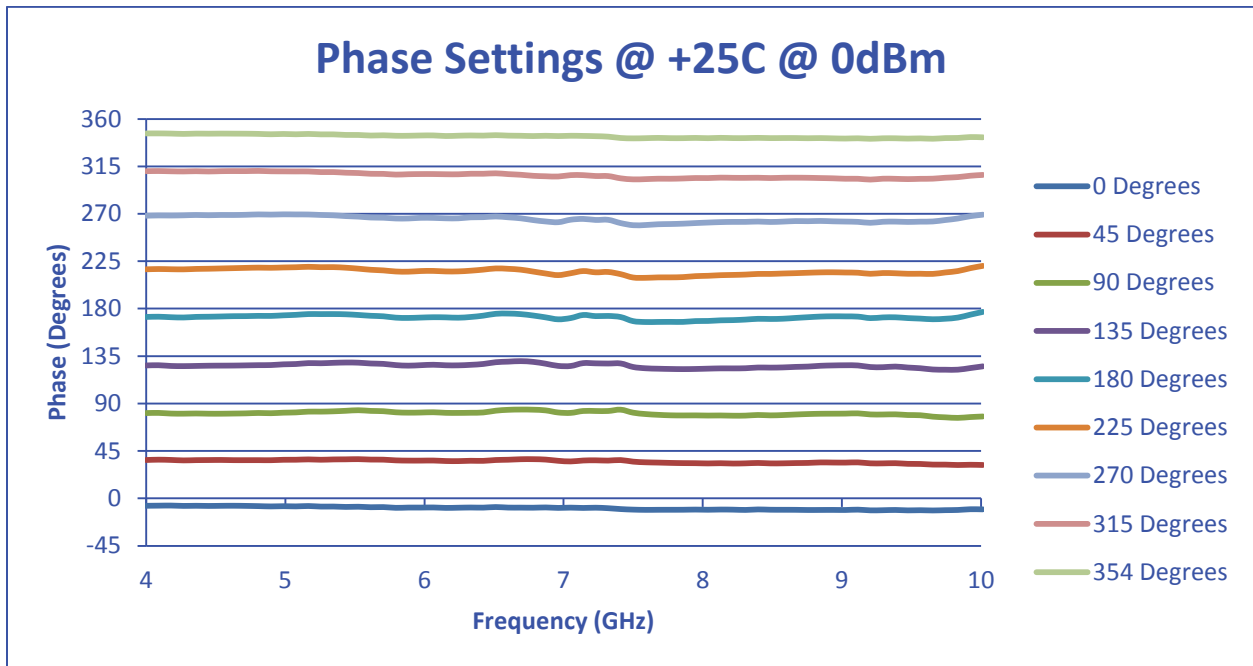
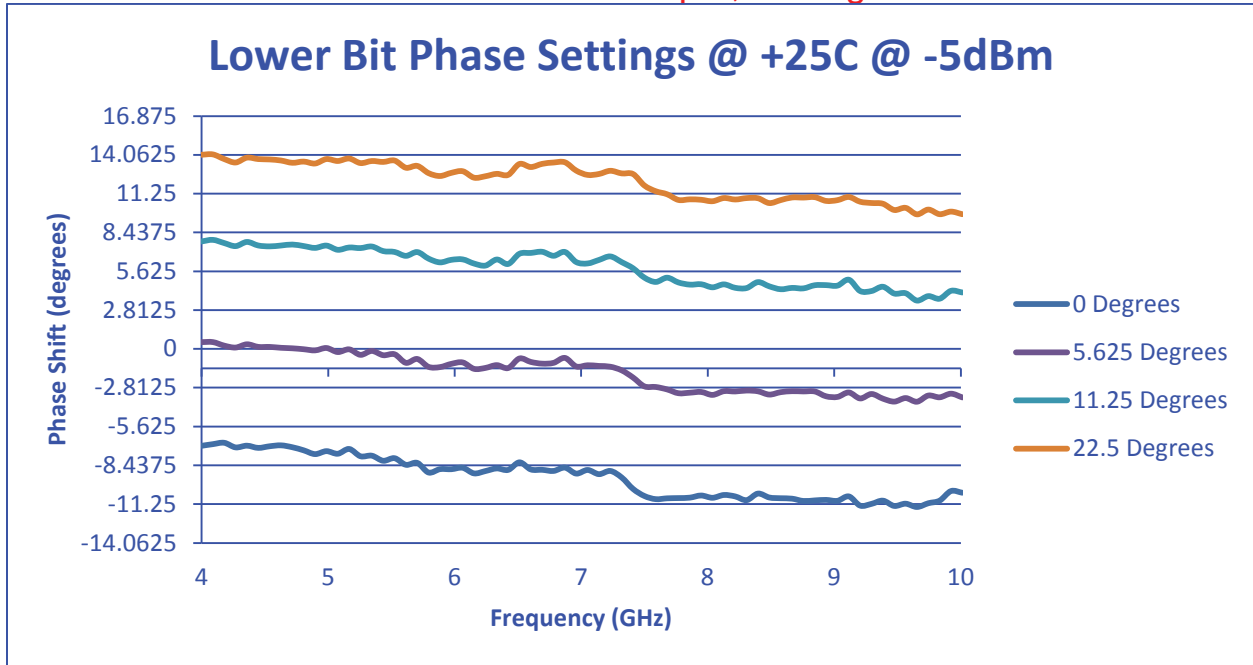




**TYPICAL CHARACTERISTICS
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Phase and Amplitude Performance at 0 dBm Input, 25°C

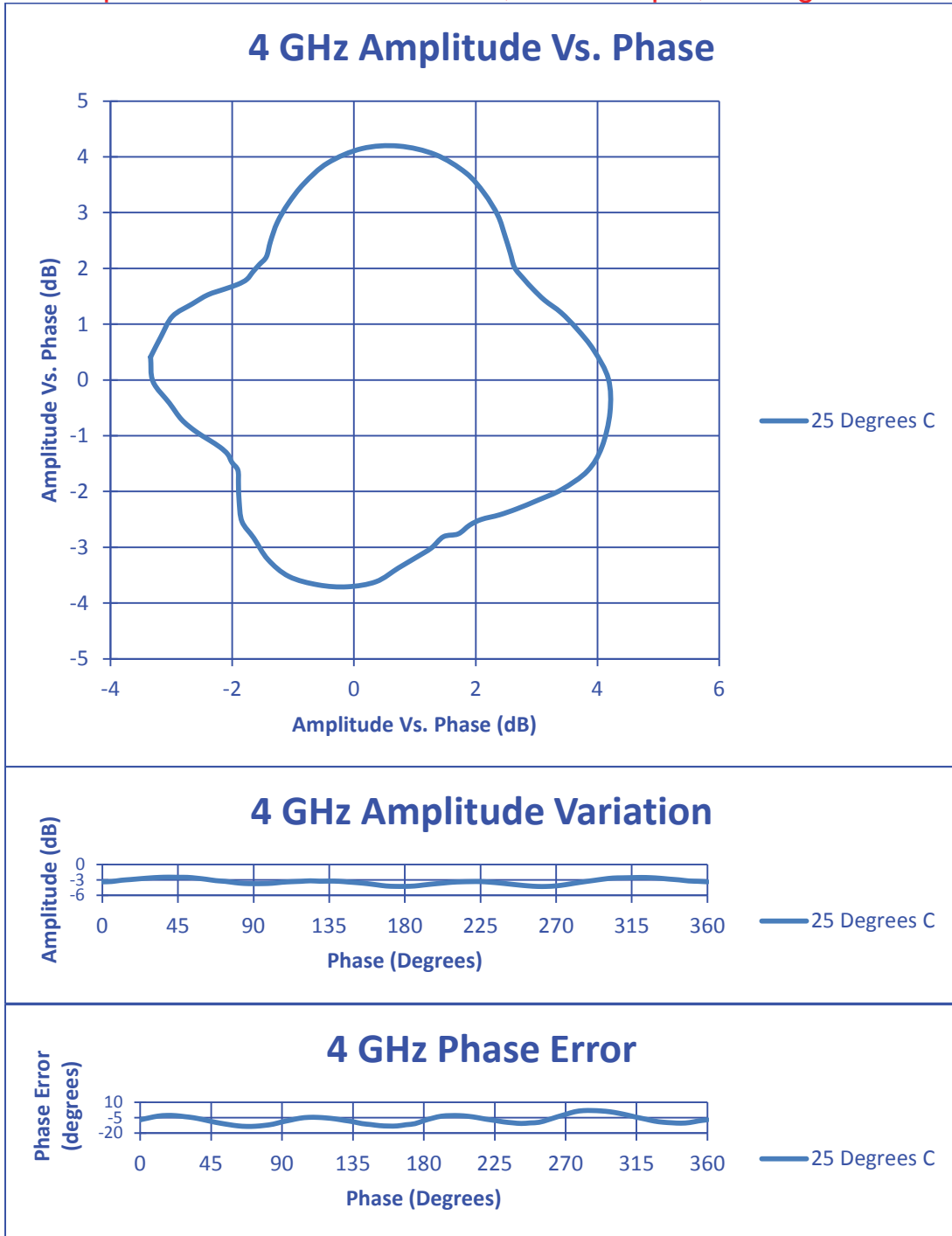
Phase Shift at 0 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

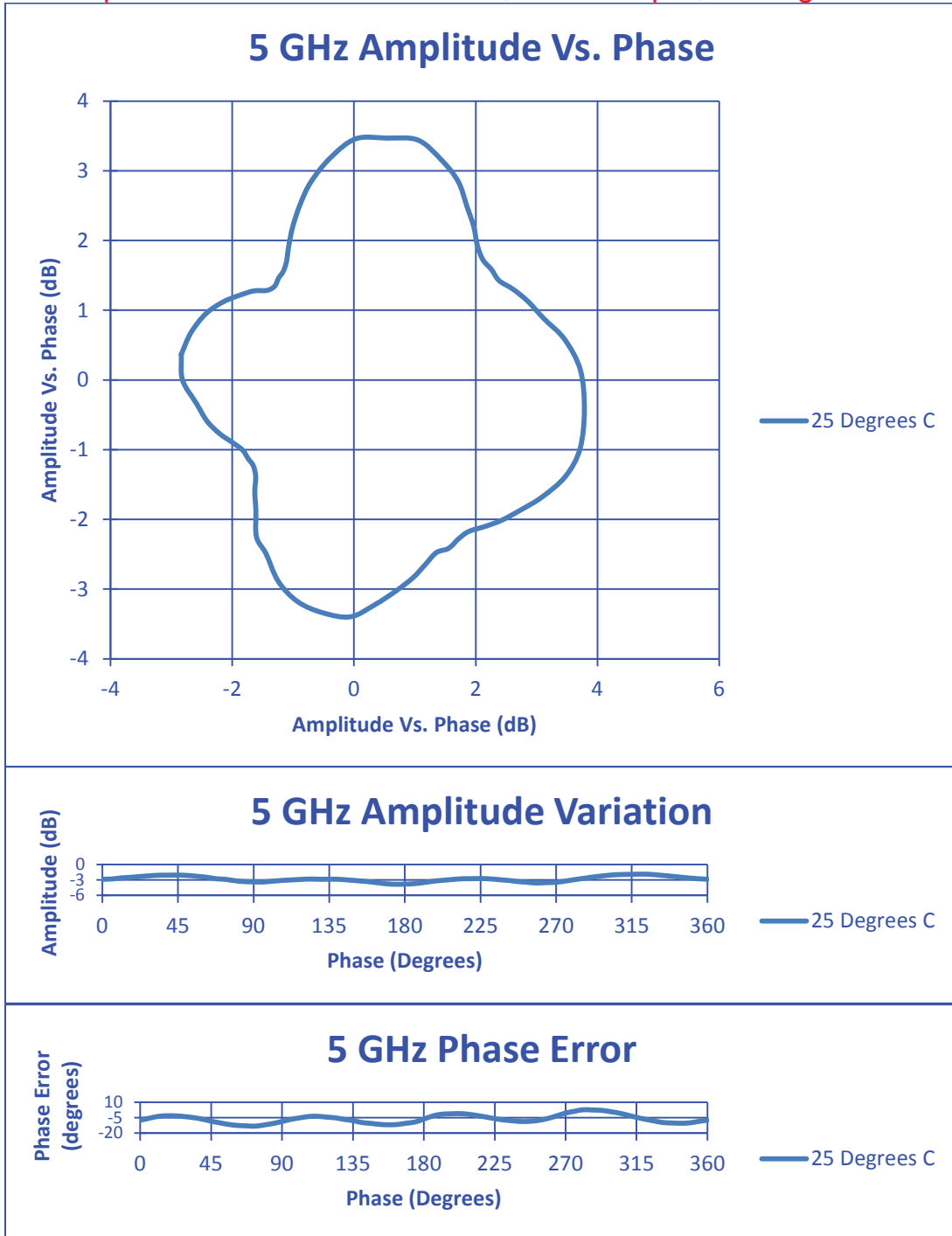
Amplitude and Phase at 4 GHz, 0 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

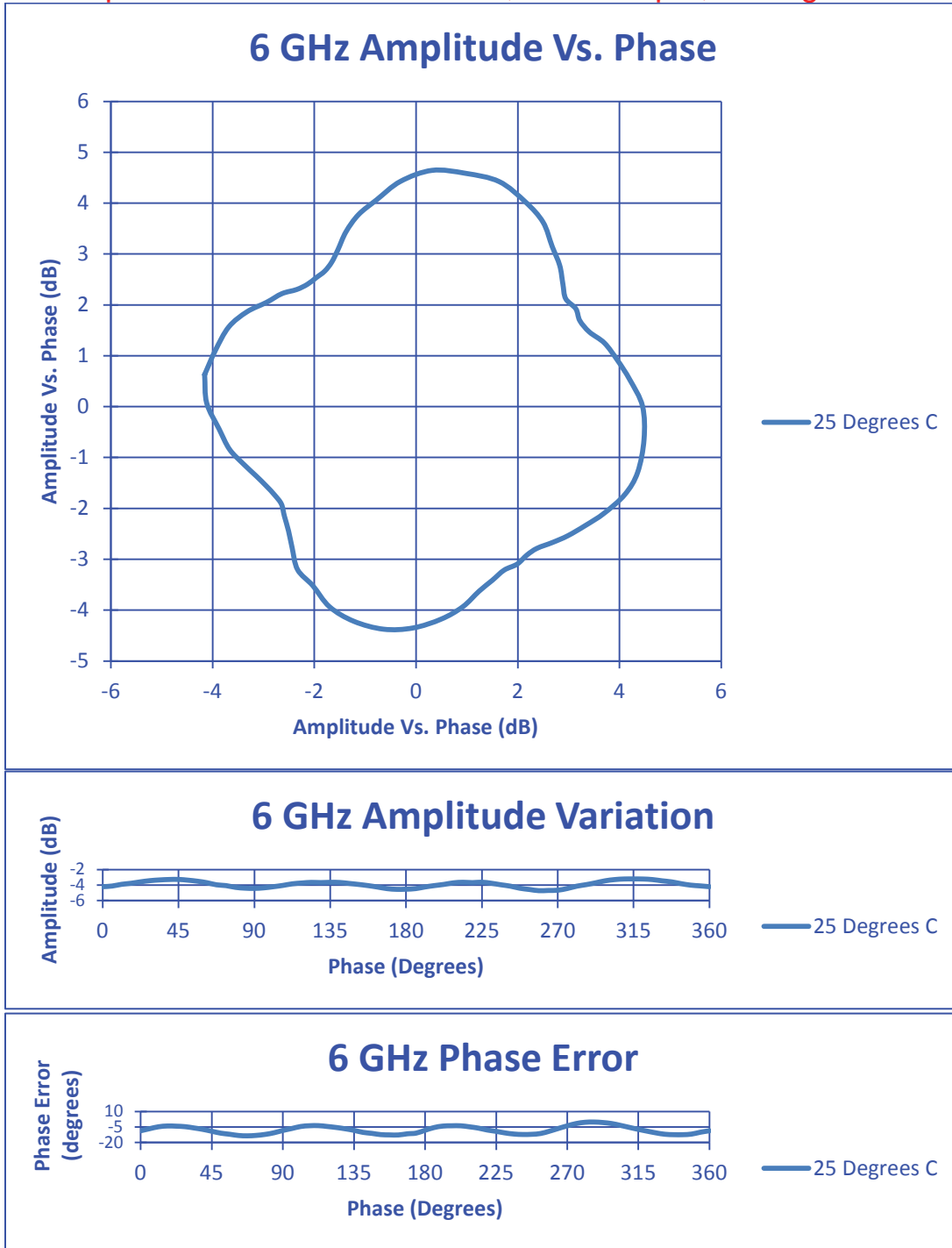
Amplitude and Phase at 5 GHz, 0 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

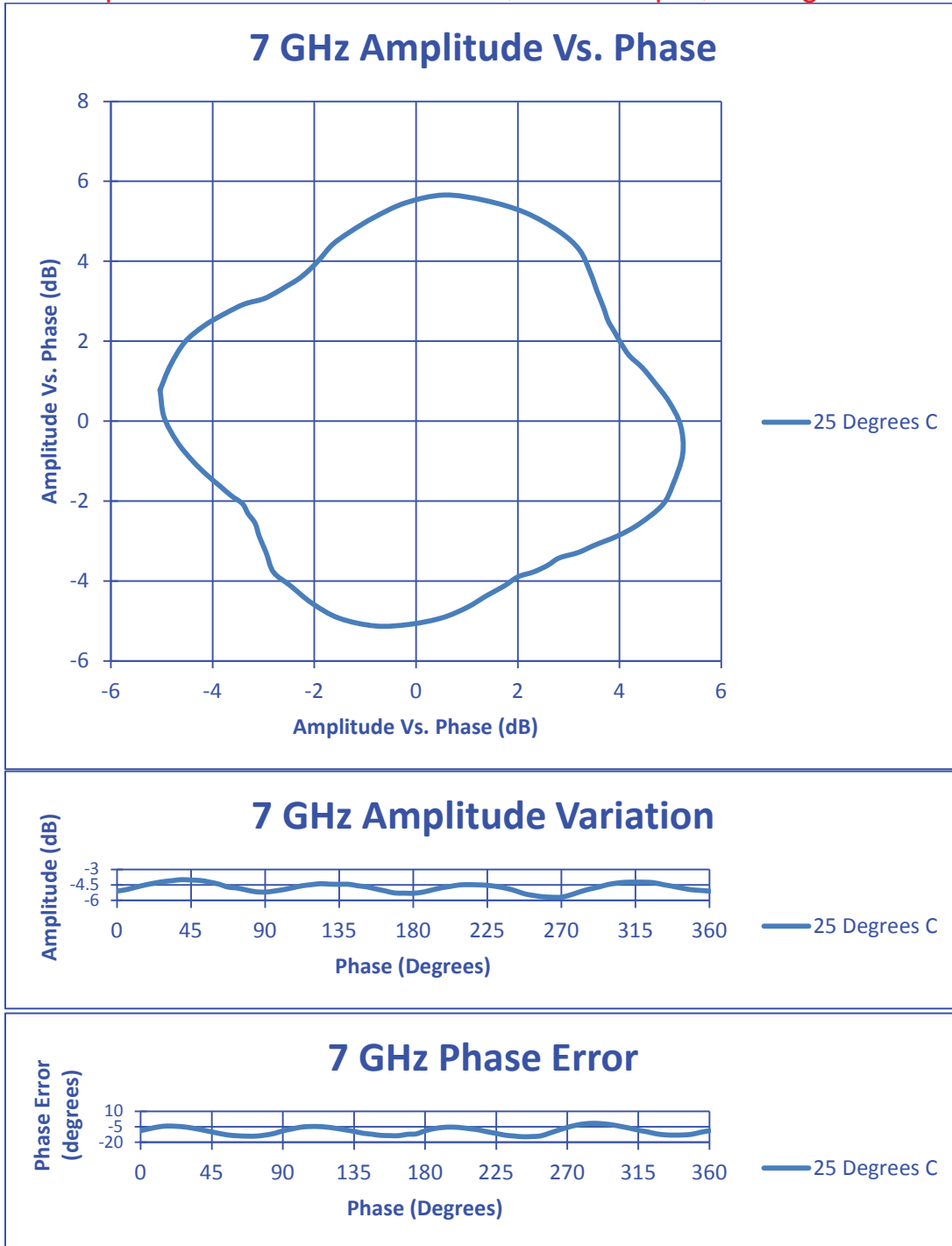
Amplitude and Phase at 6 GHz, 0 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 7 GHz, 0 dBm Input, 25 degrees C

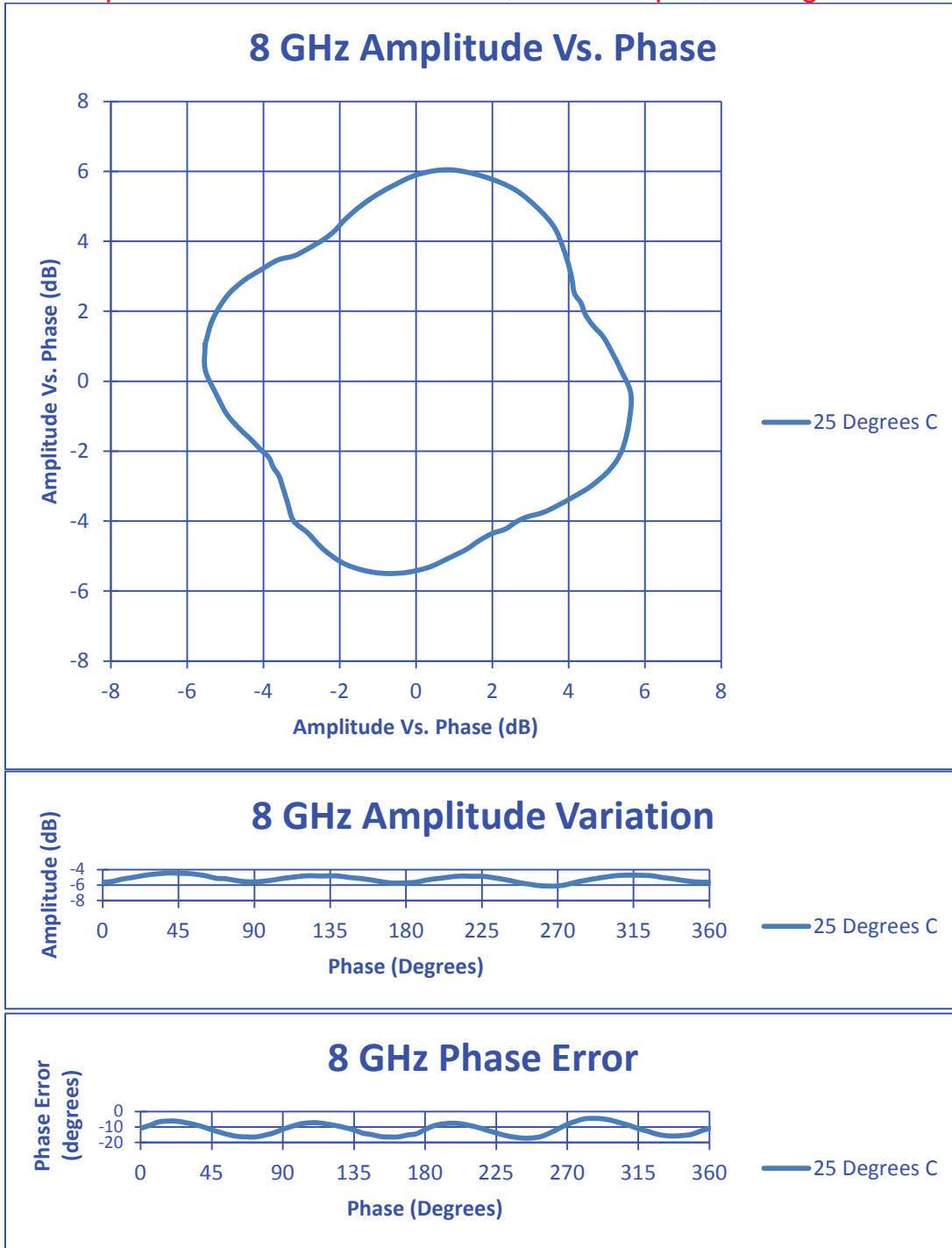


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Amplitude and Phase at 8 GHz, 0 dBm Input, 25 degrees C

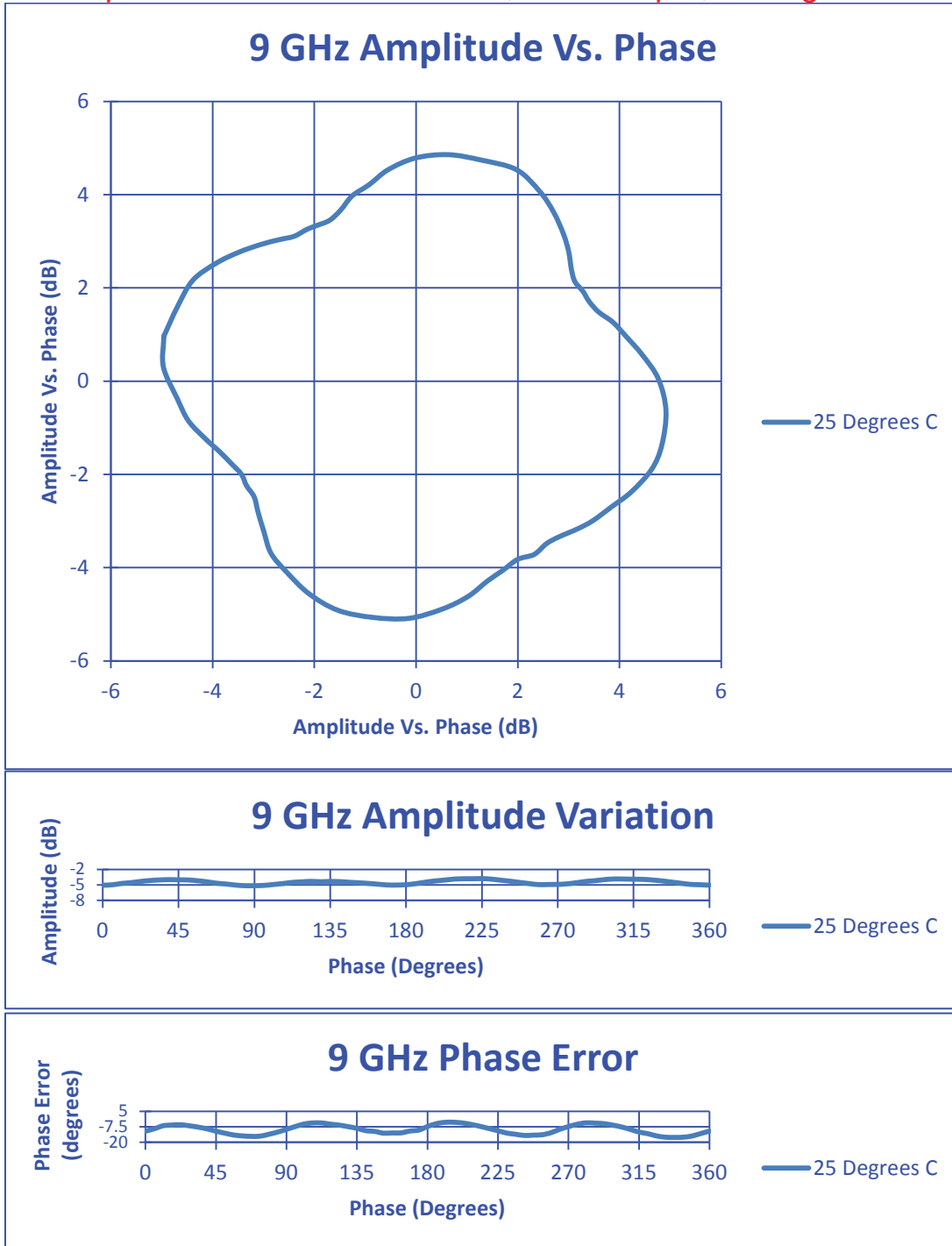


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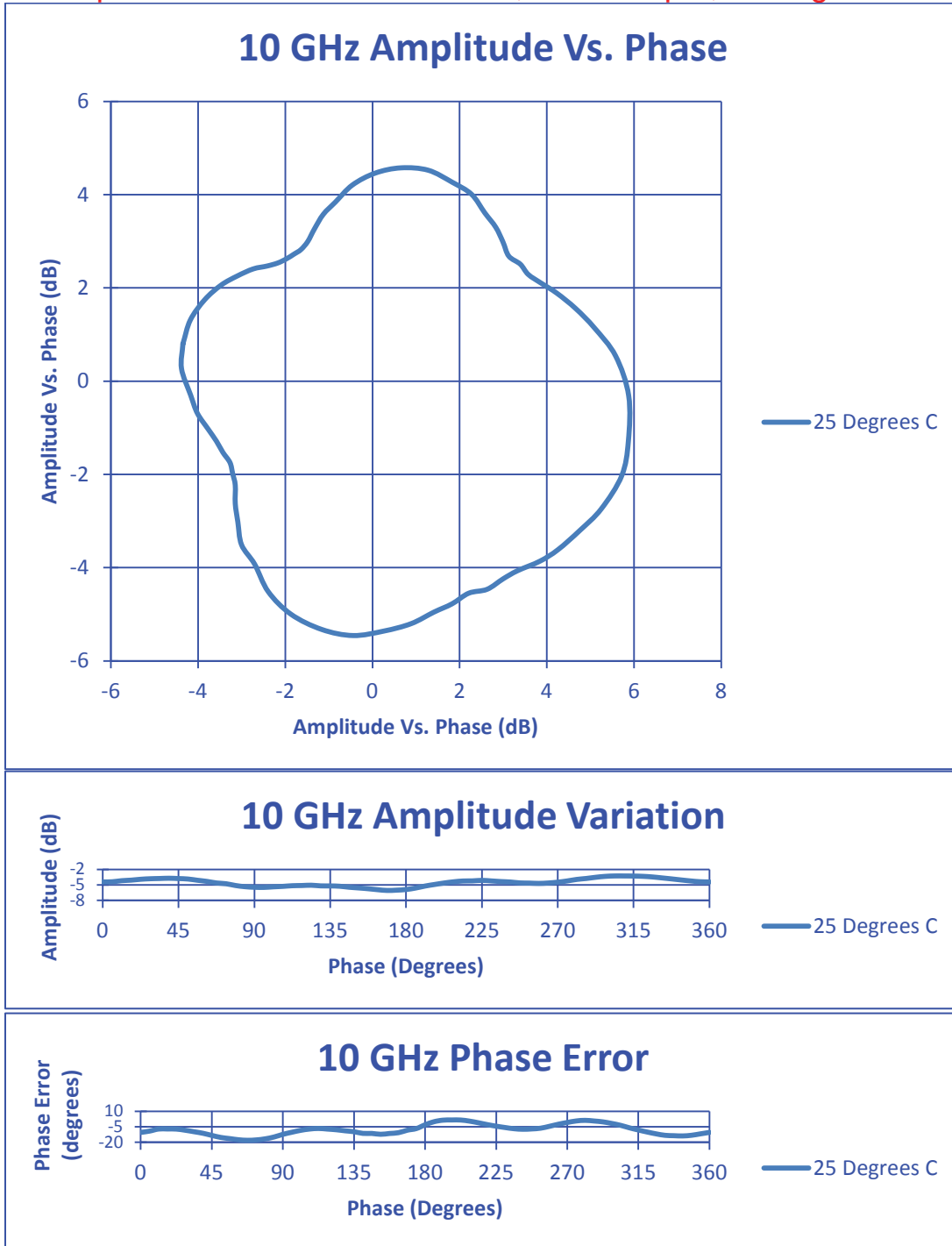
Amplitude and Phase at 9 GHz, 0 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 10 GHz, 0 dBm Input, 25 degrees C

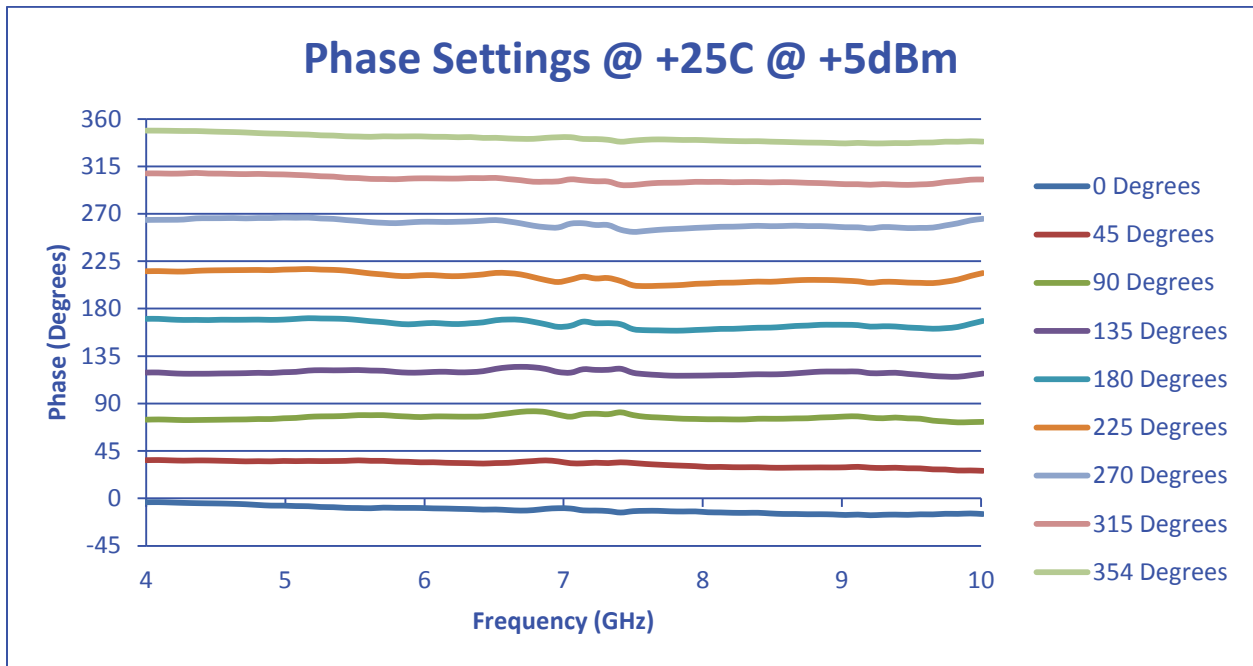
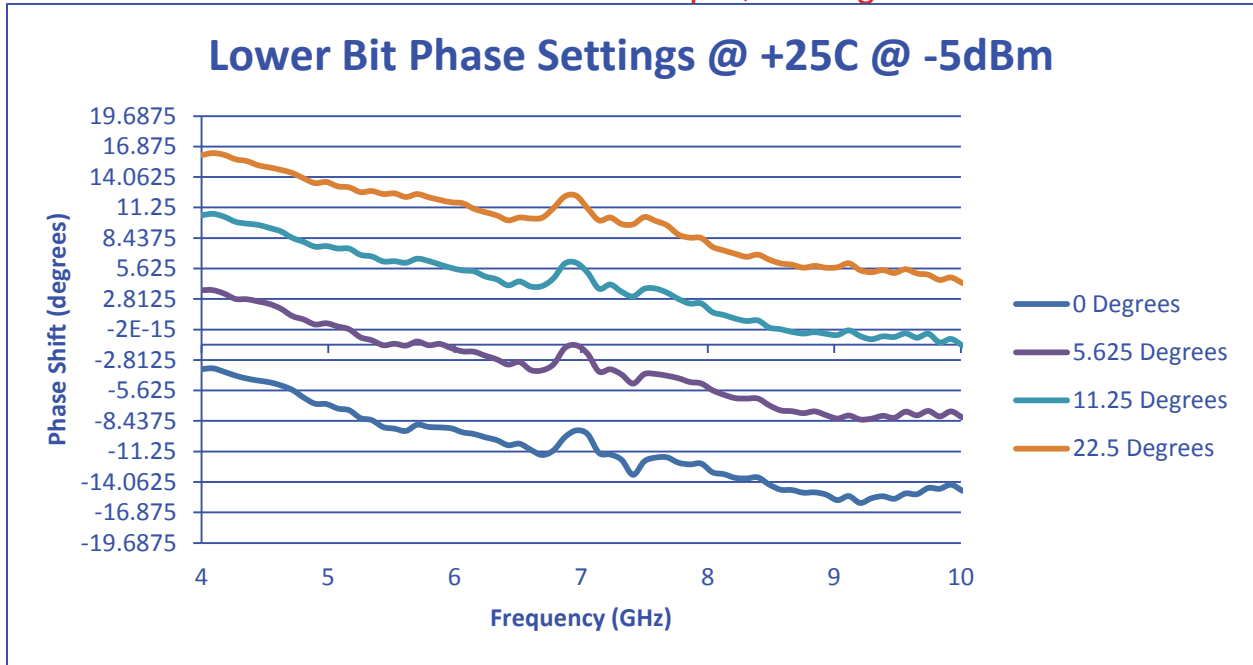




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Phase and Amplitude Performance at +5 dBm Input, 25°C

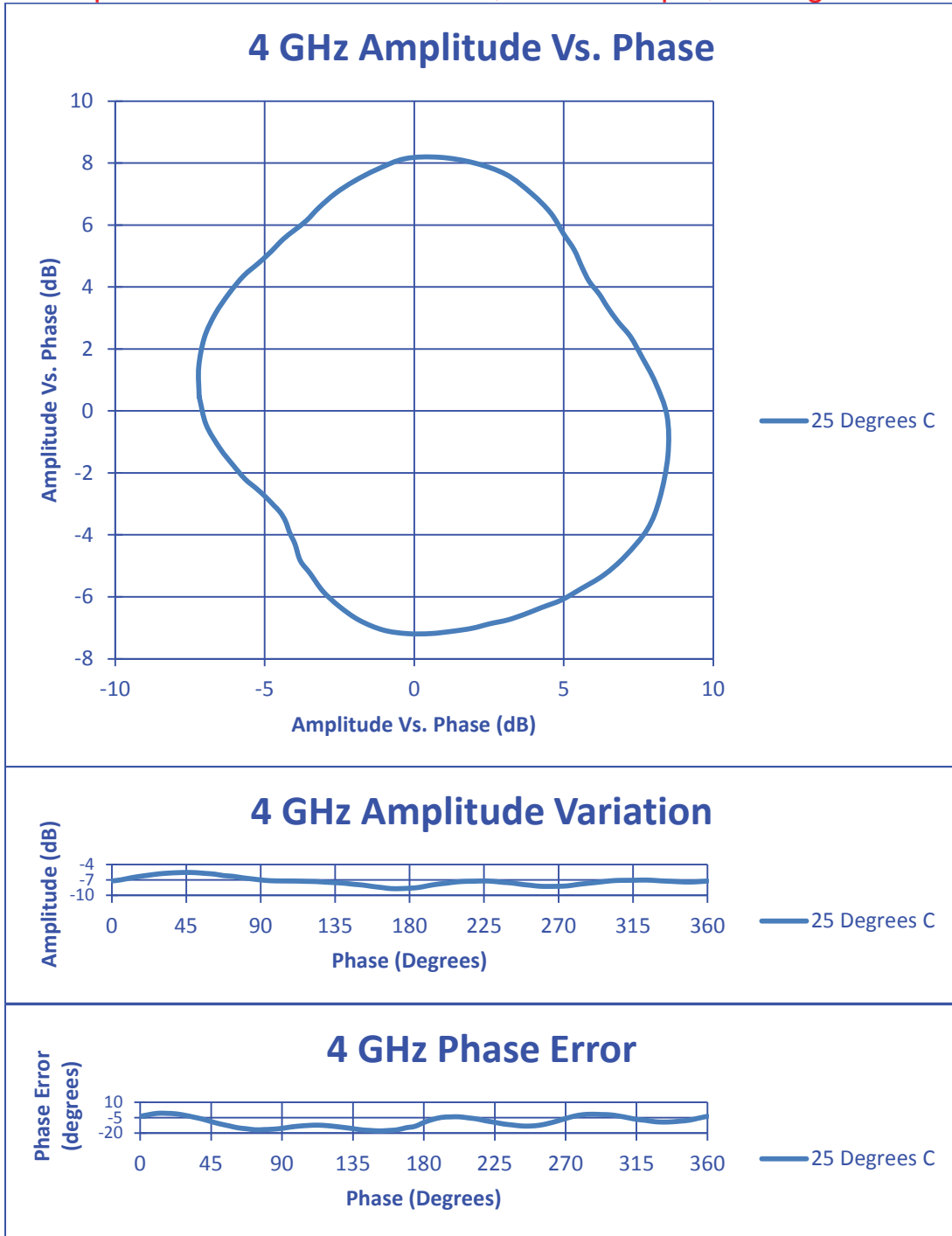
Phase Shift at +5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

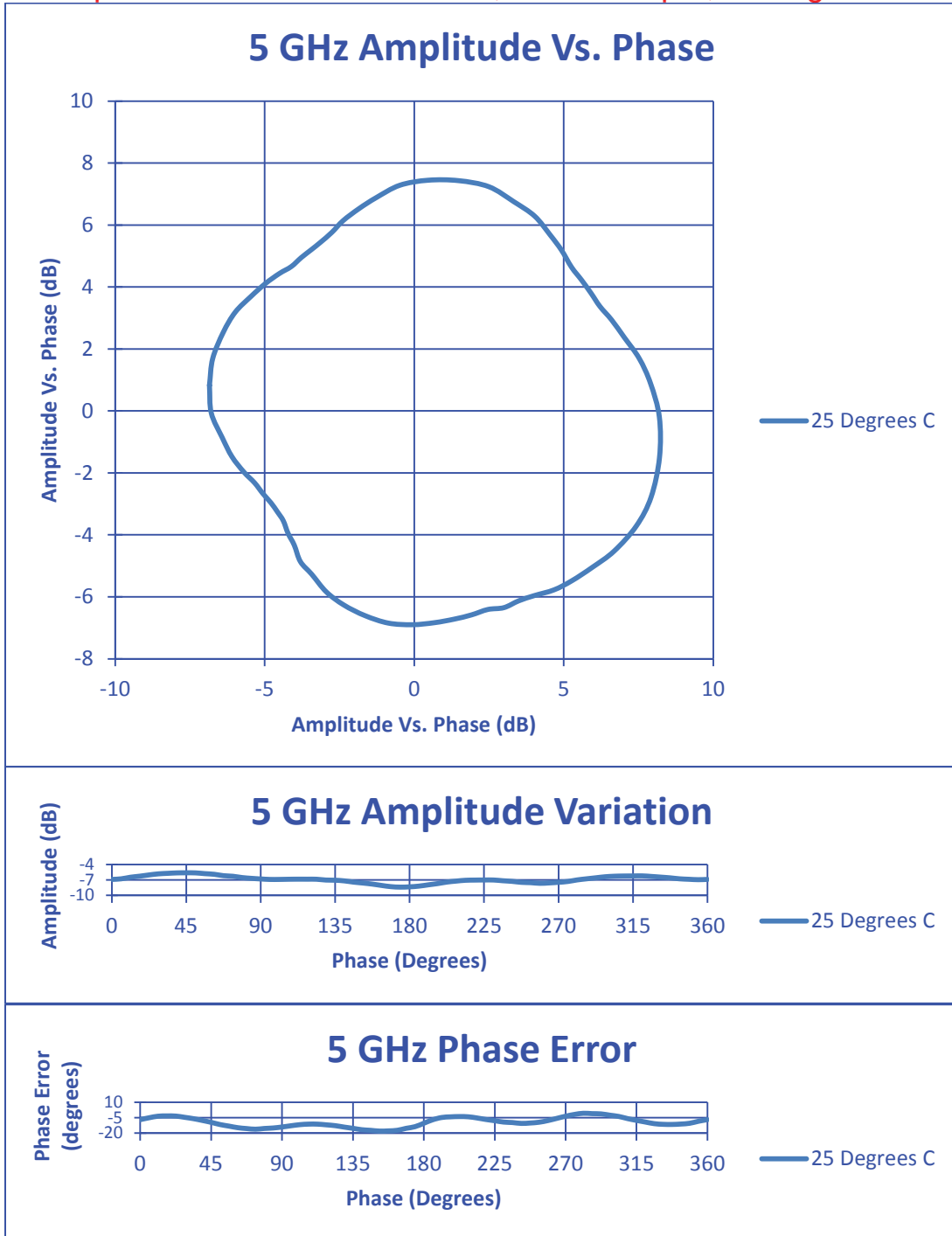
Amplitude and Phase at 4 GHz, +5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

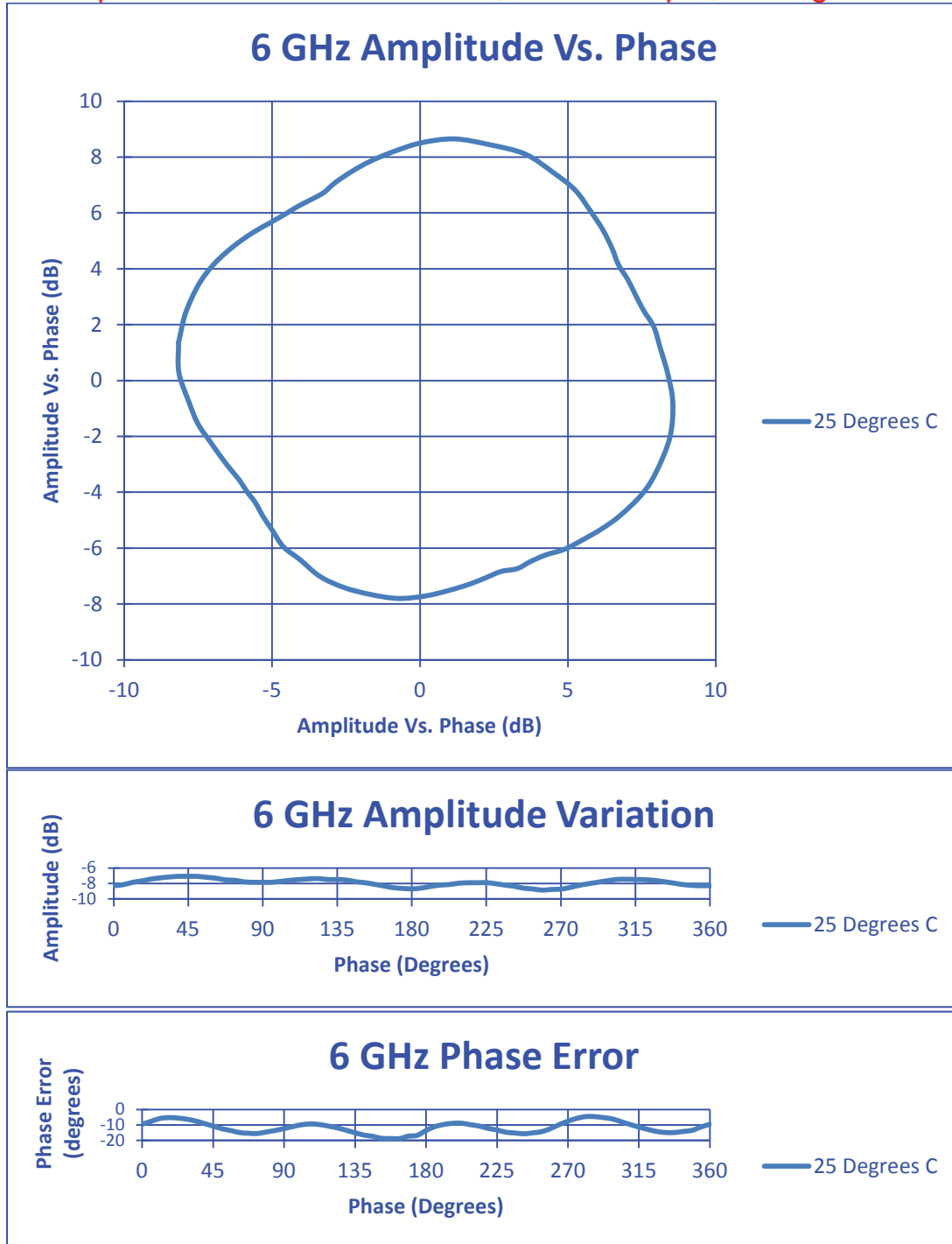
Amplitude and Phase at 5 GHz, +5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

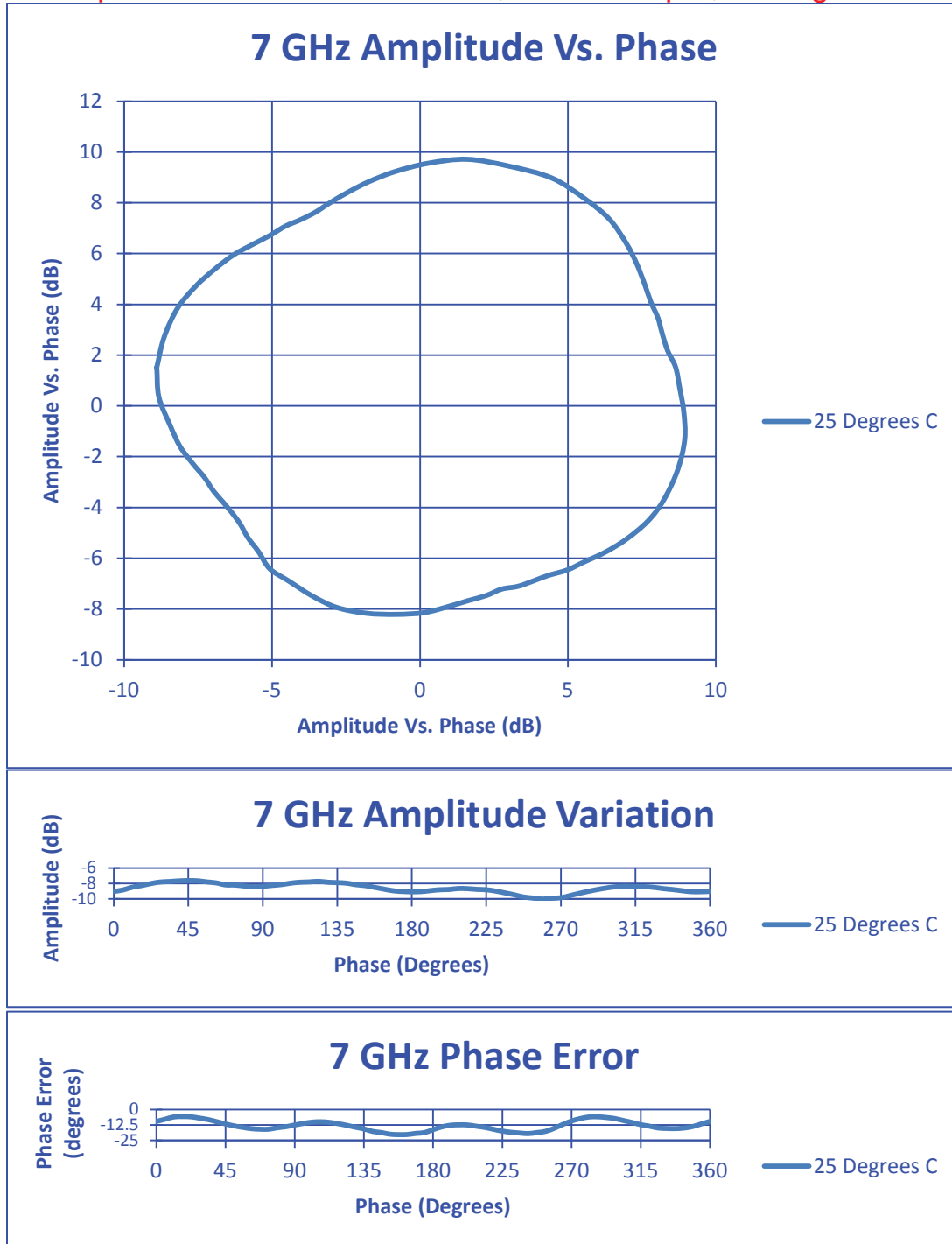
Amplitude and Phase at 6 GHz, +5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

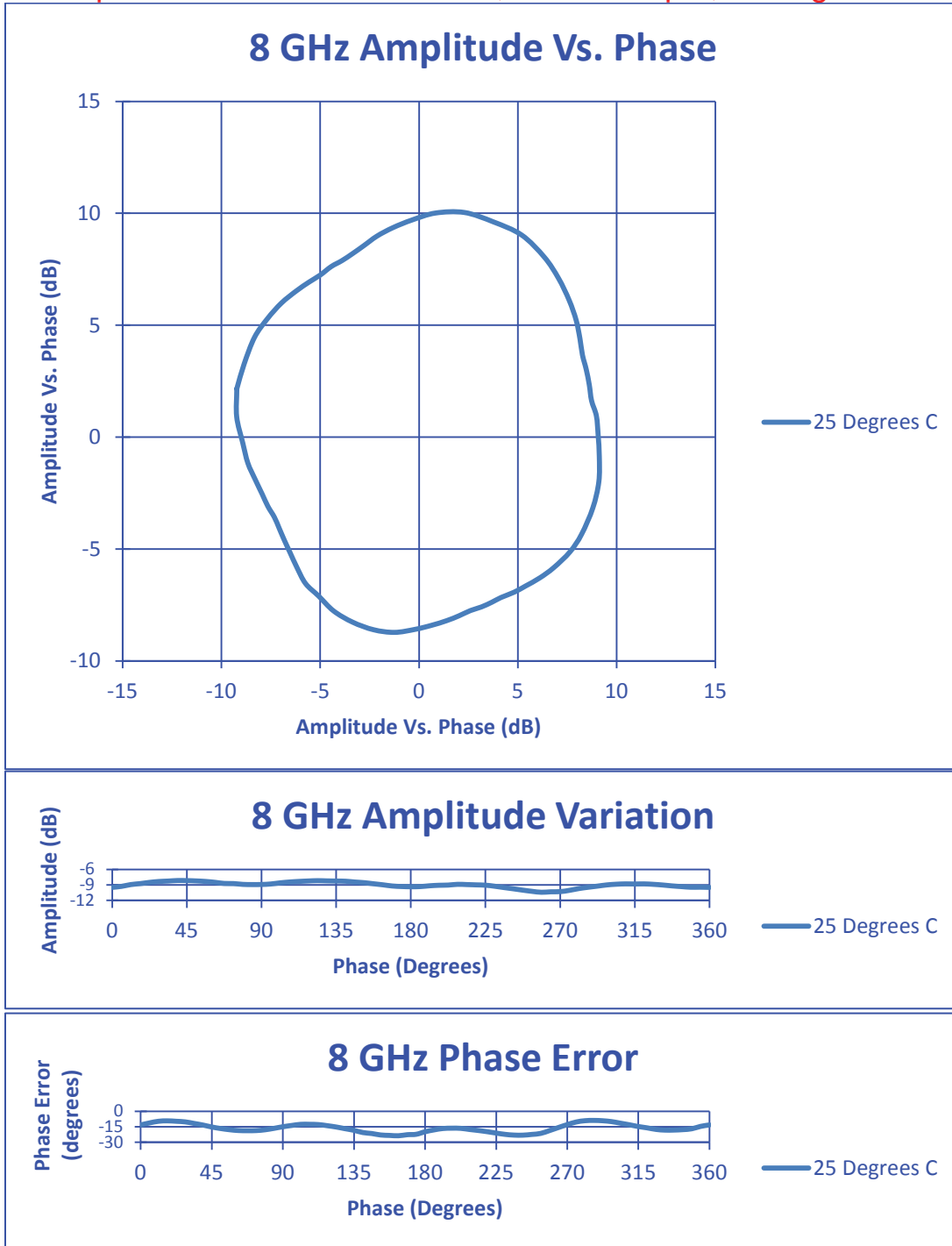
Amplitude and Phase at 7 GHz, +5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

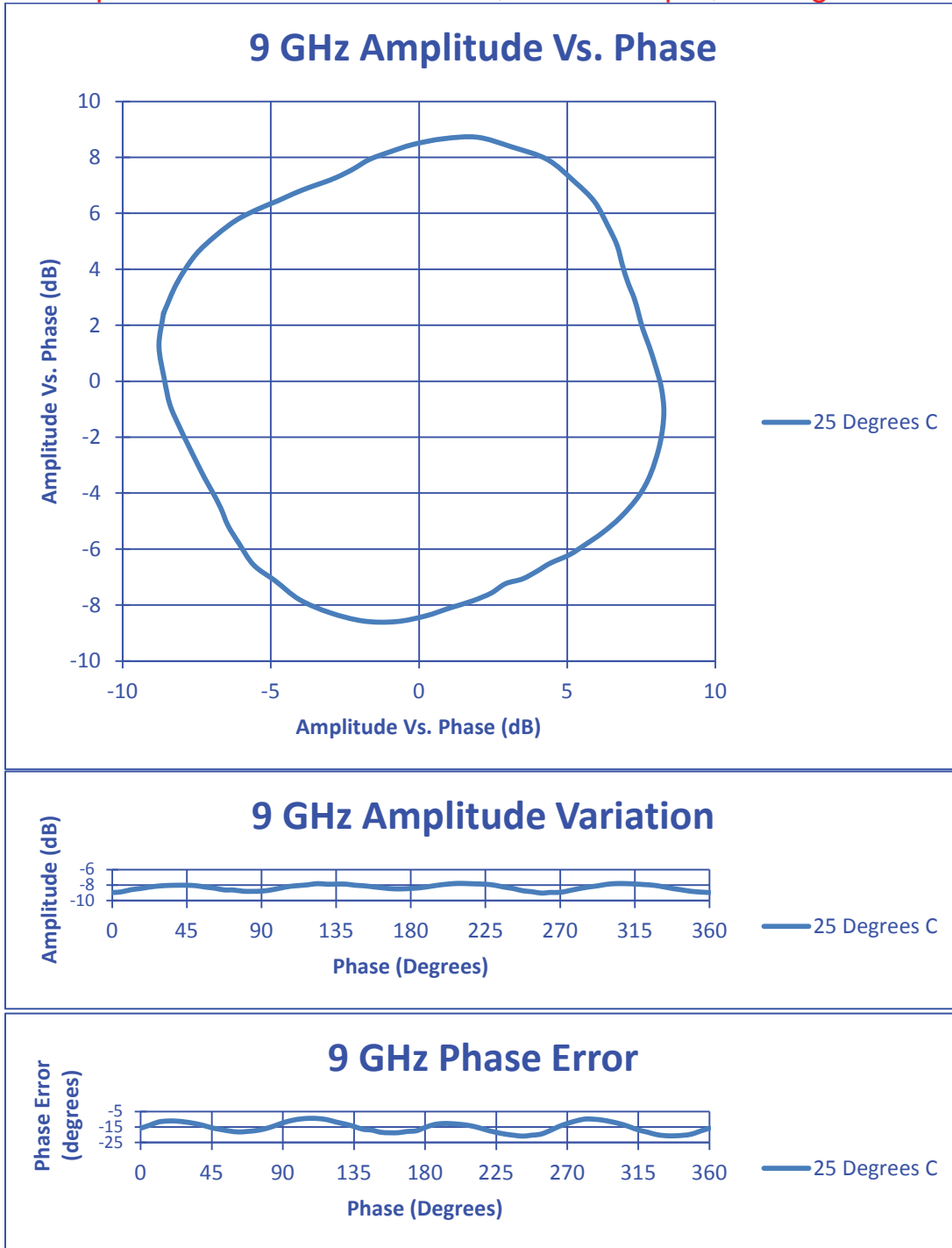
Amplitude and Phase at 8 GHz, +5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

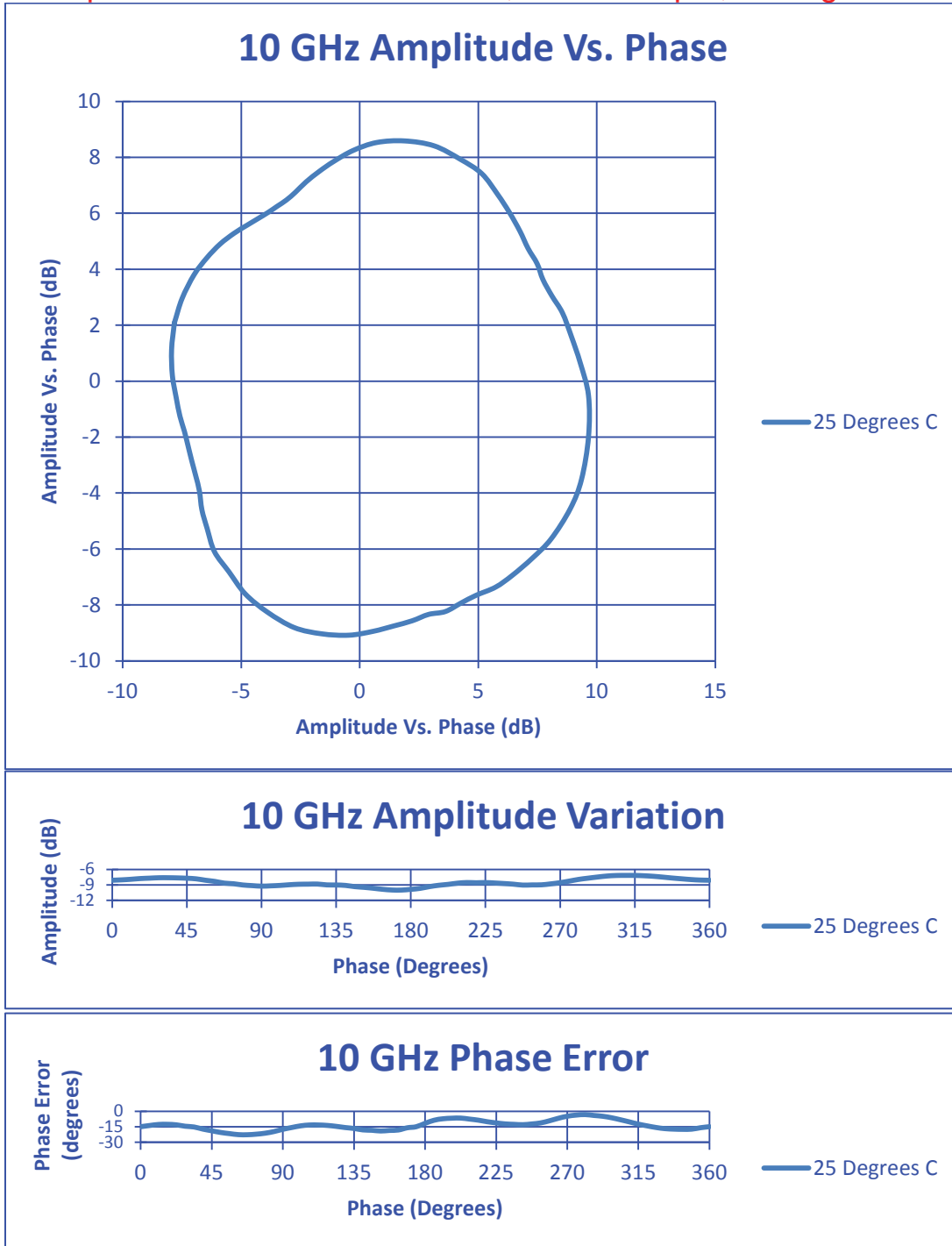
Amplitude and Phase at 9 GHz, +5 dBm Input, 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 10 GHz, +5 dBm Input, 25 degrees C

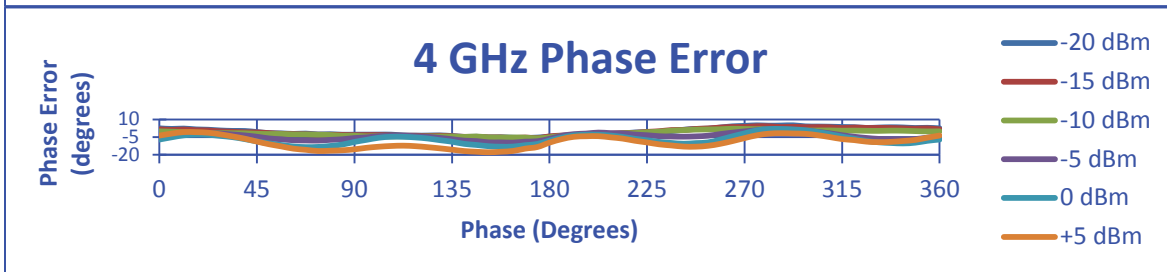
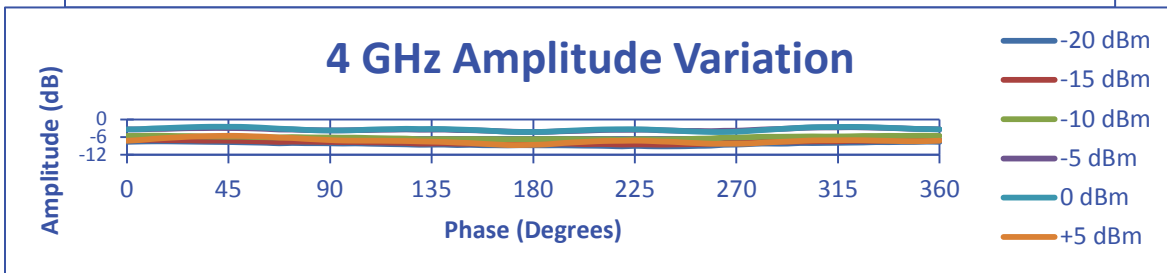
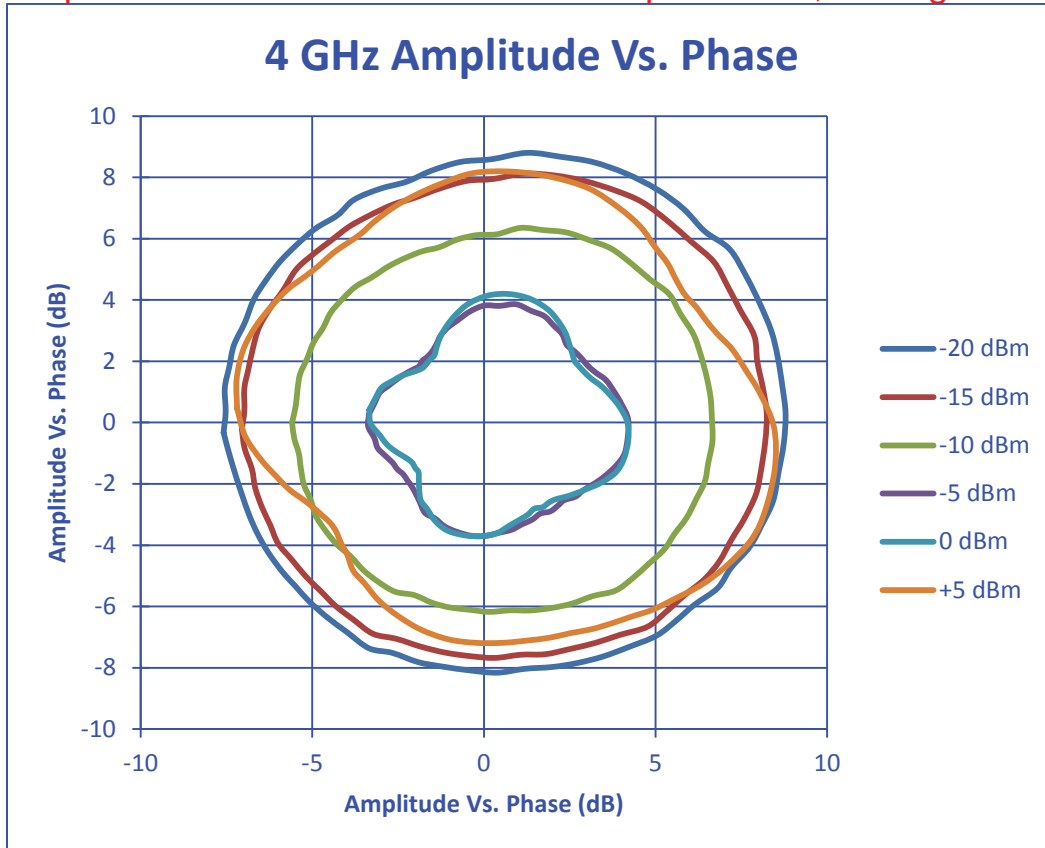




TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase and Amplitude Performance over Input Power, 25°C

Amplitude and Phase at 4 GHz over Input Power, 25 degrees C

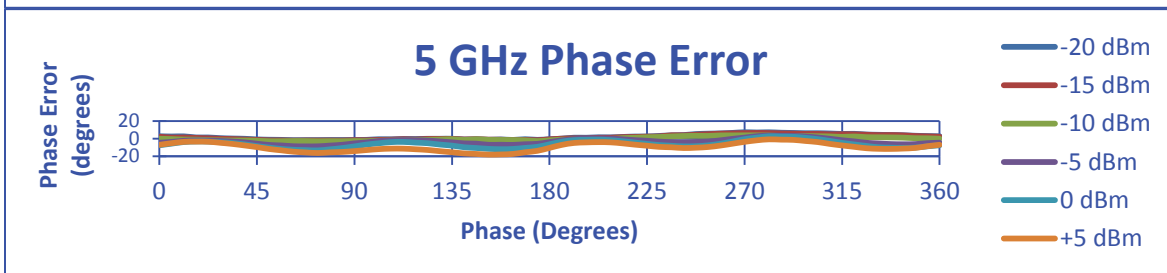
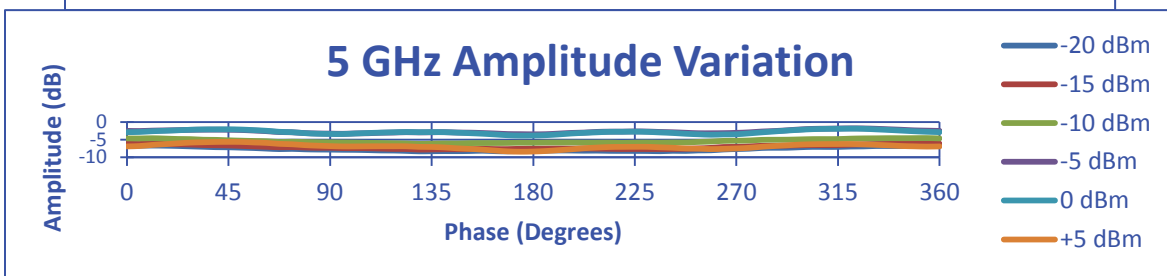
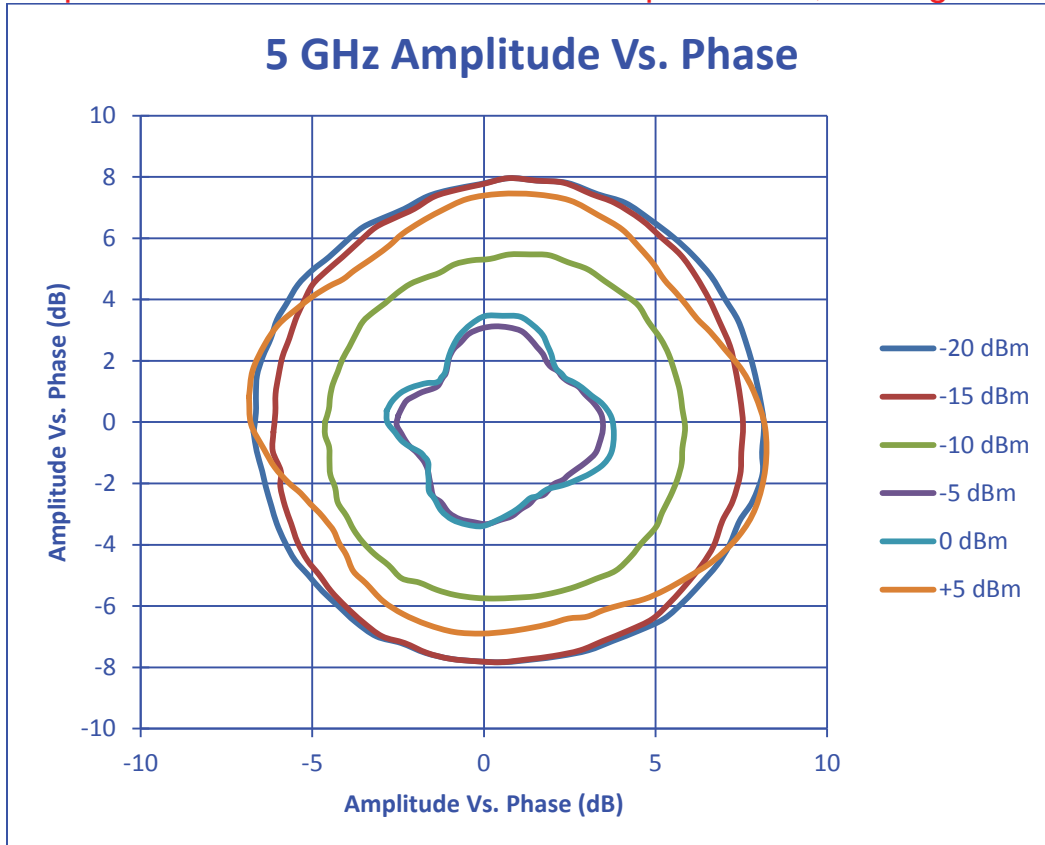


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TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 5 GHz over Input Power, 25 degrees C

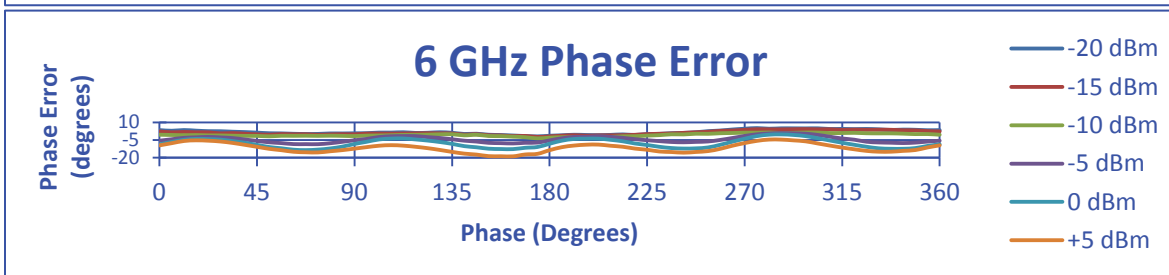
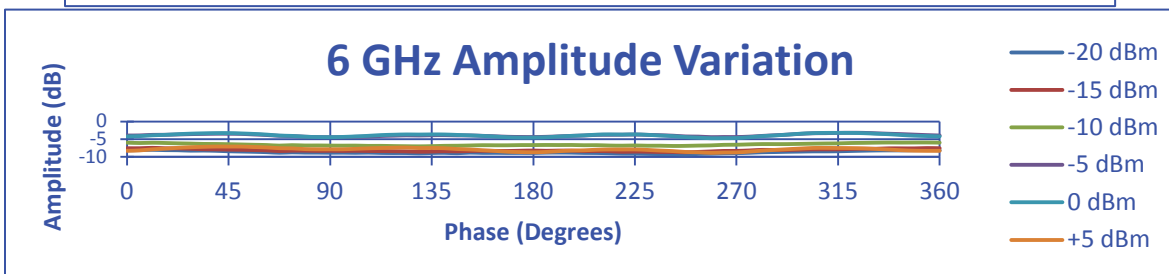
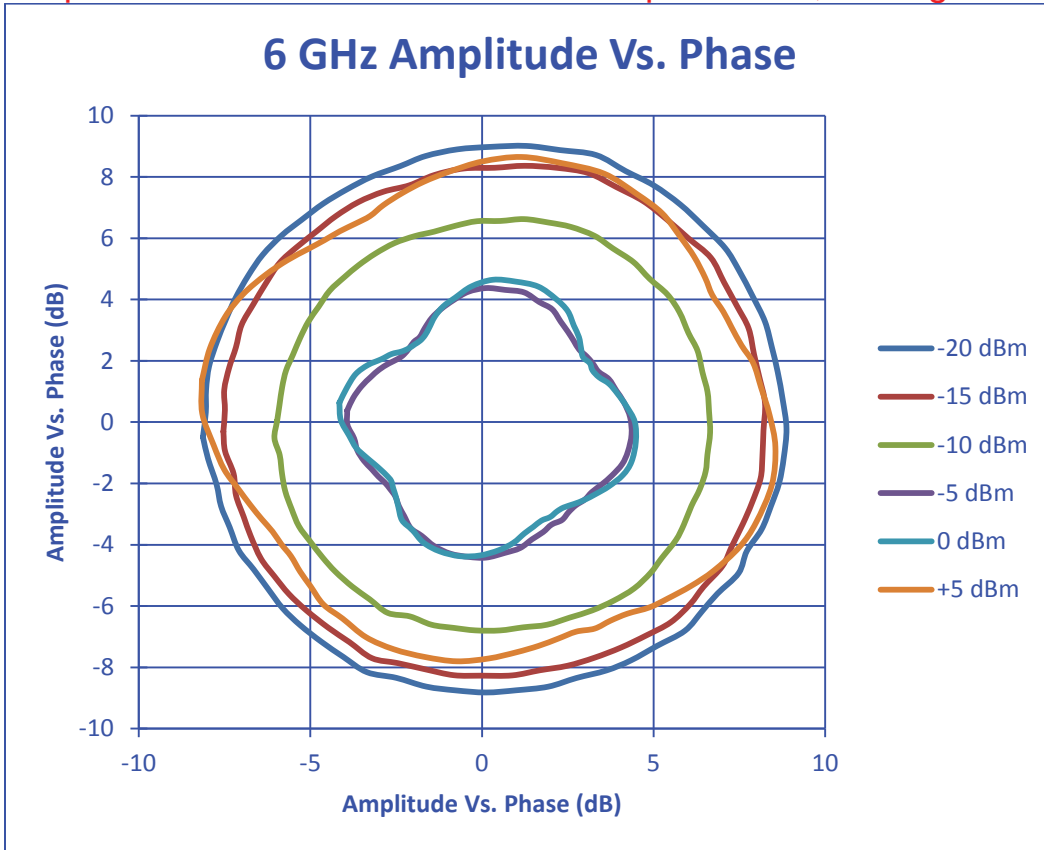


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Amplitude and Phase at 6 GHz over Input Power, 25 degrees C

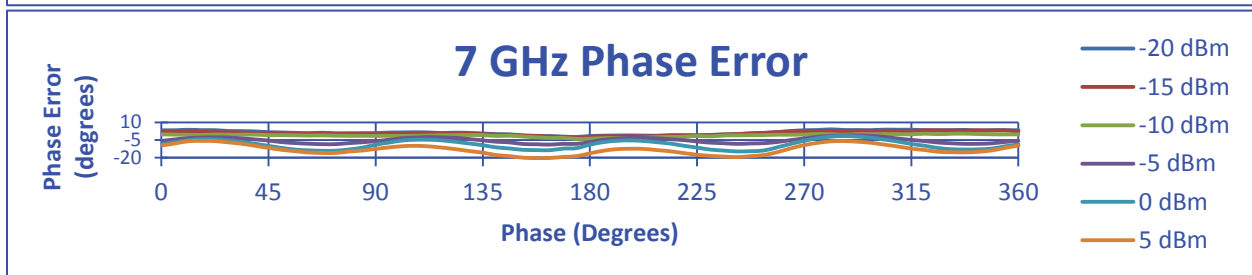
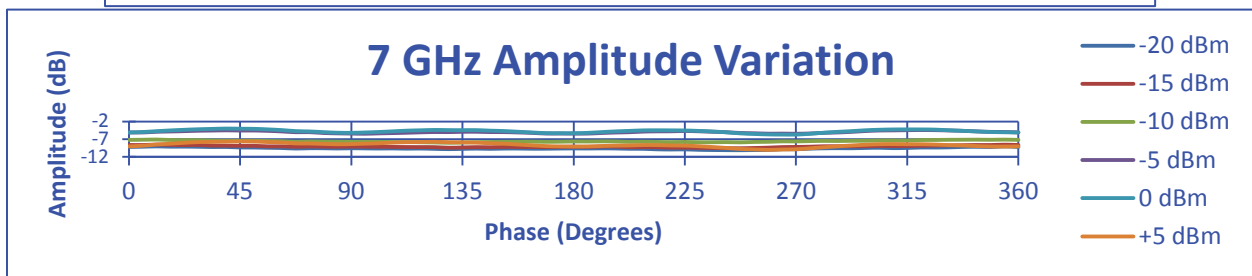
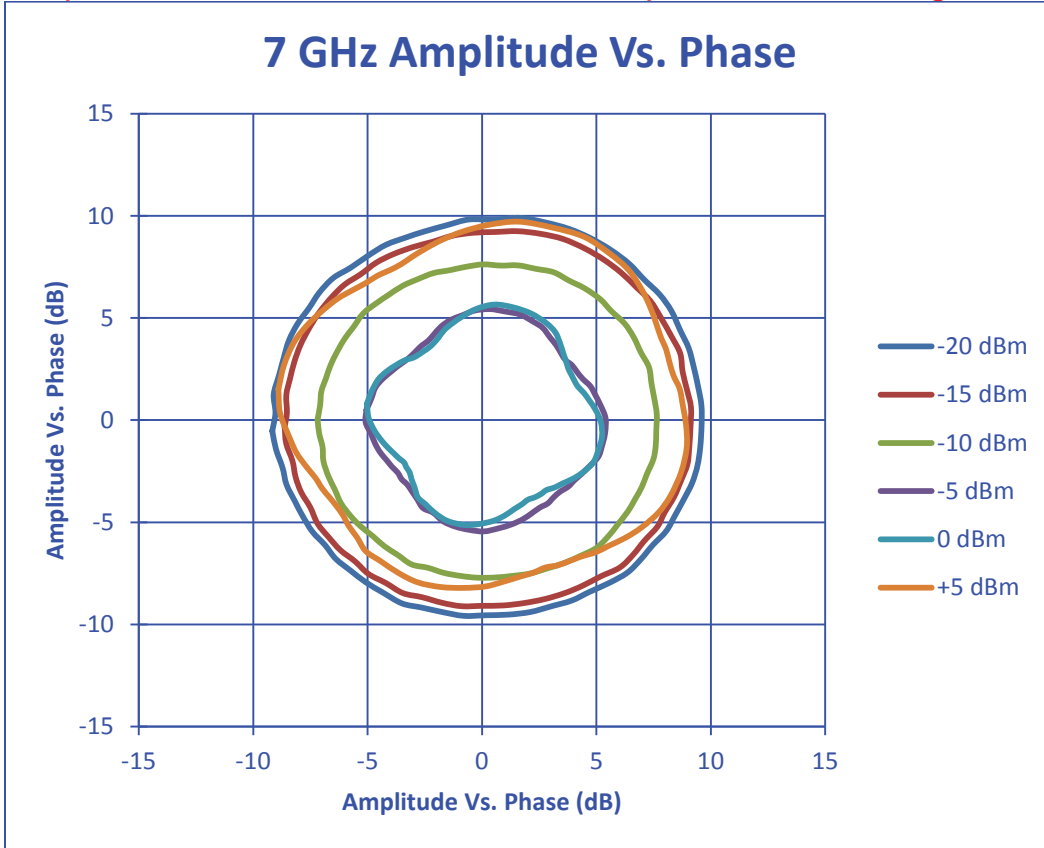


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TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 7 GHz over Input Power, 25 degrees C

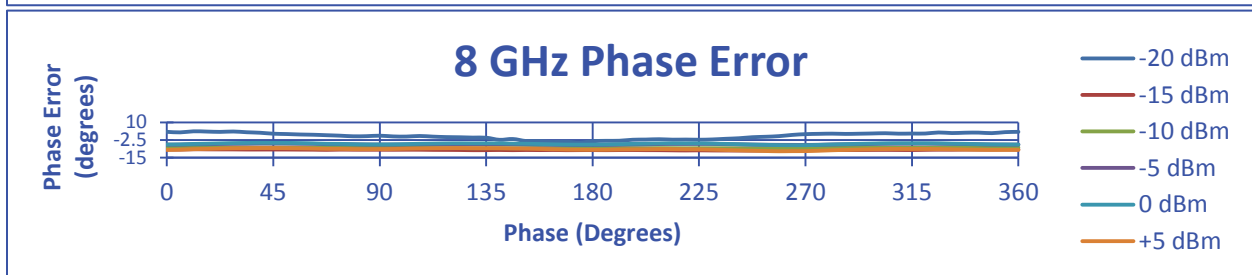
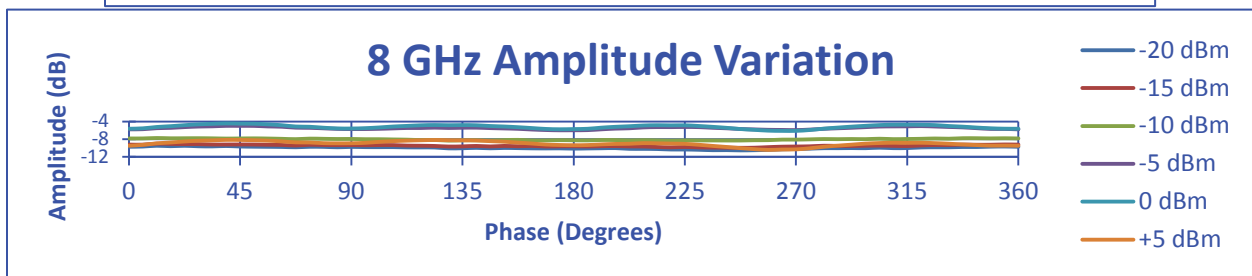
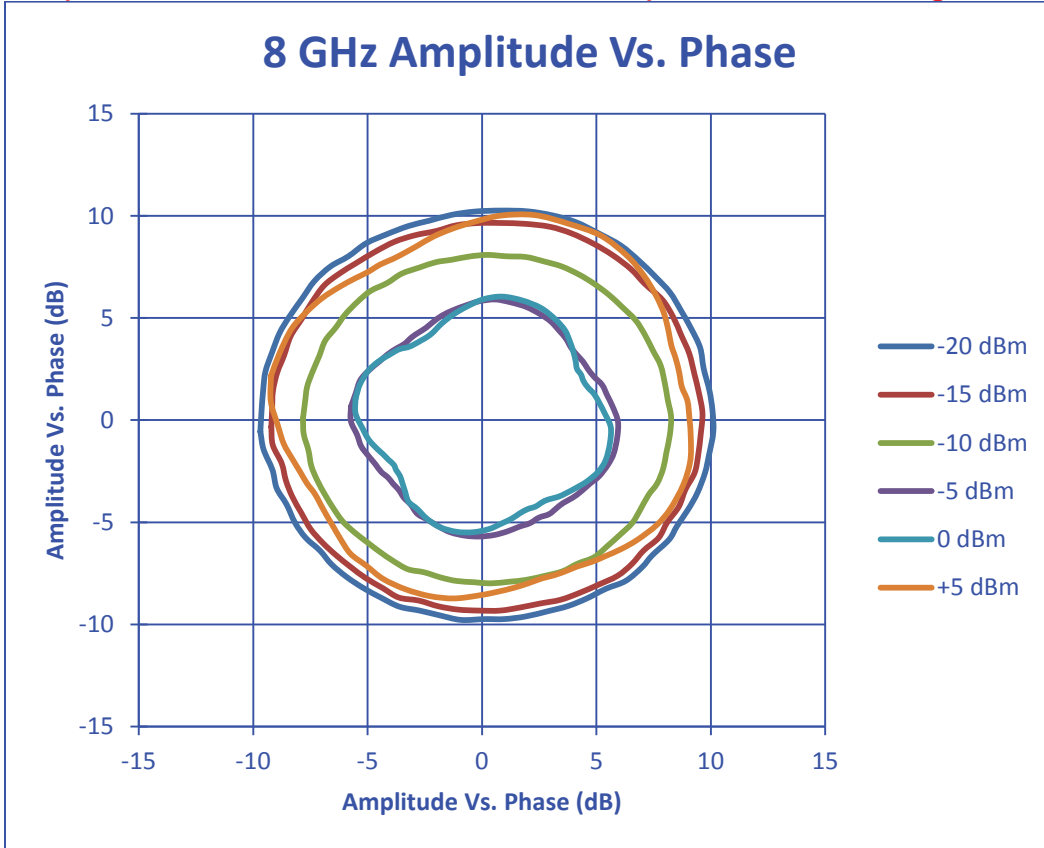


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TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 8 GHz over Input Power, 25 degrees C

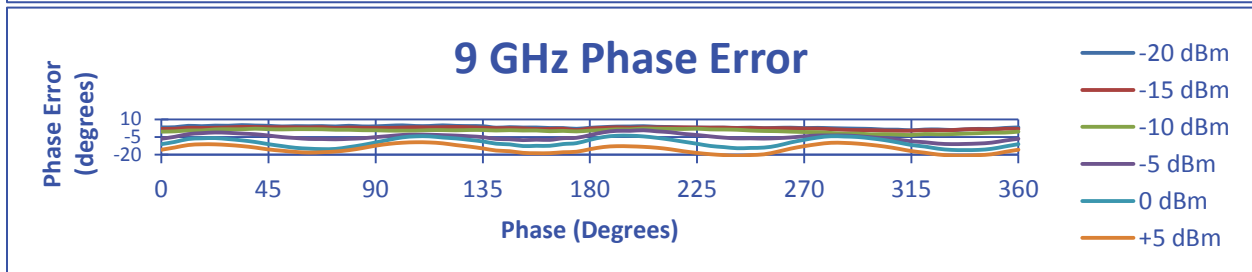
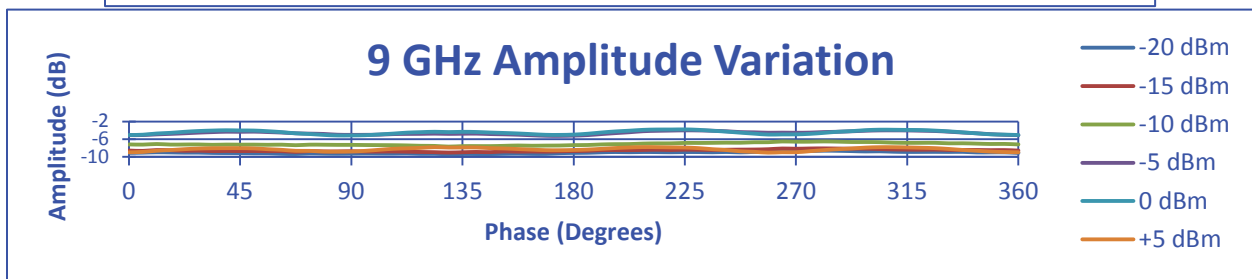
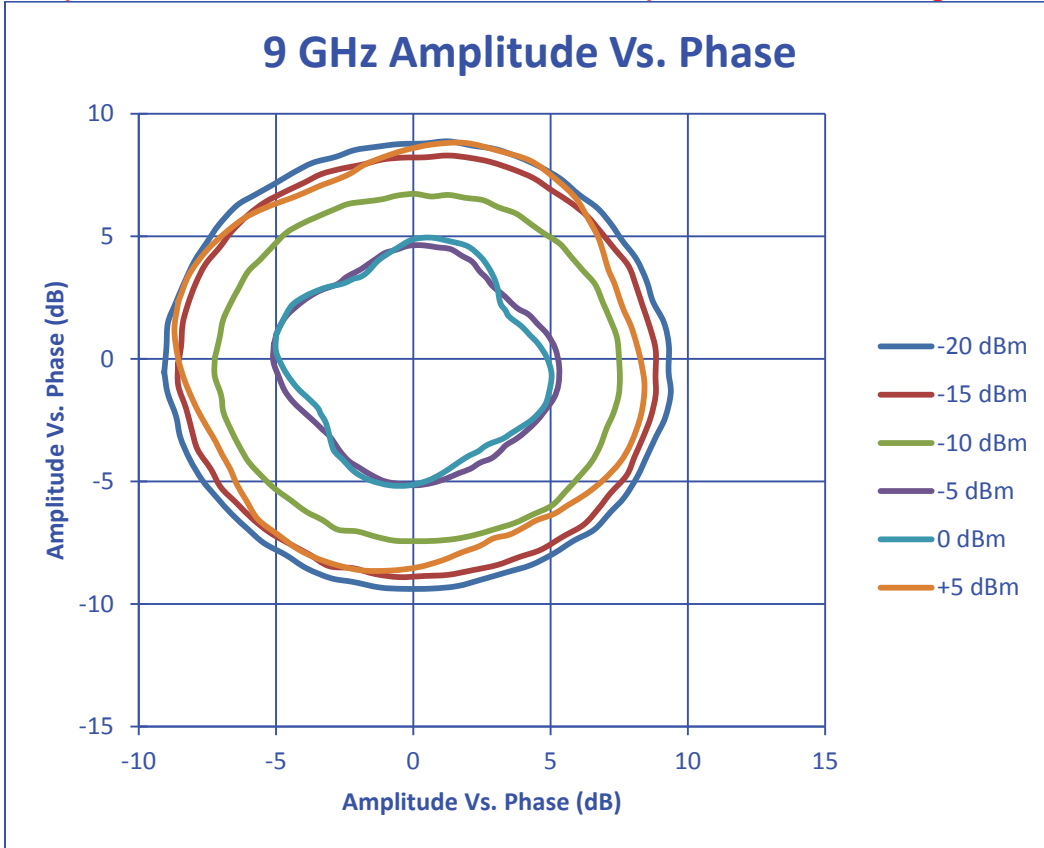


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TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 9 GHz over Input Power, 25 degrees C

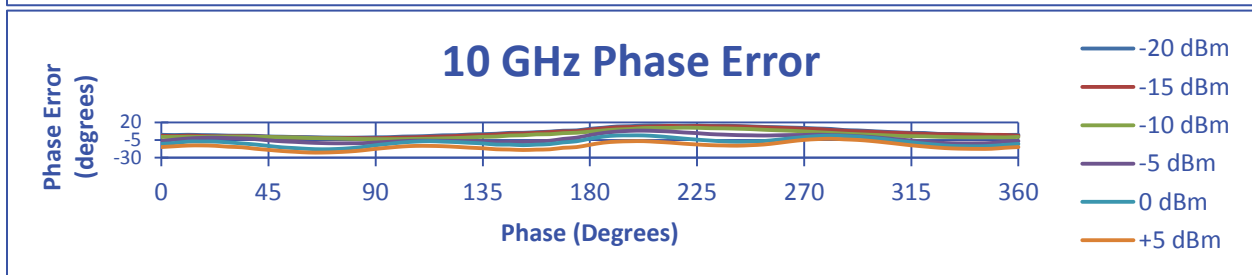
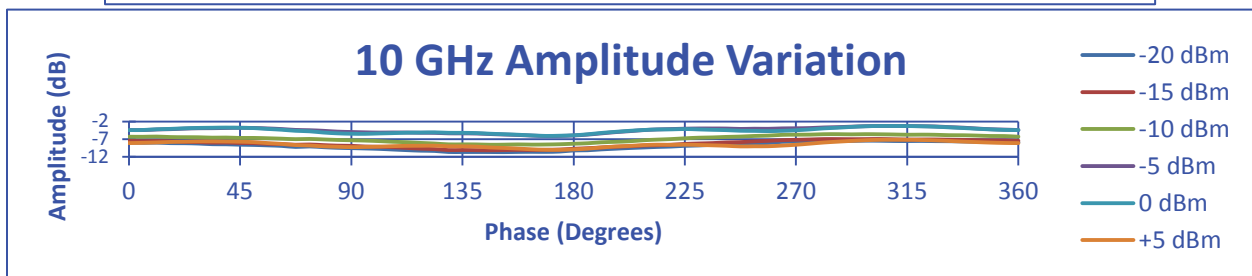
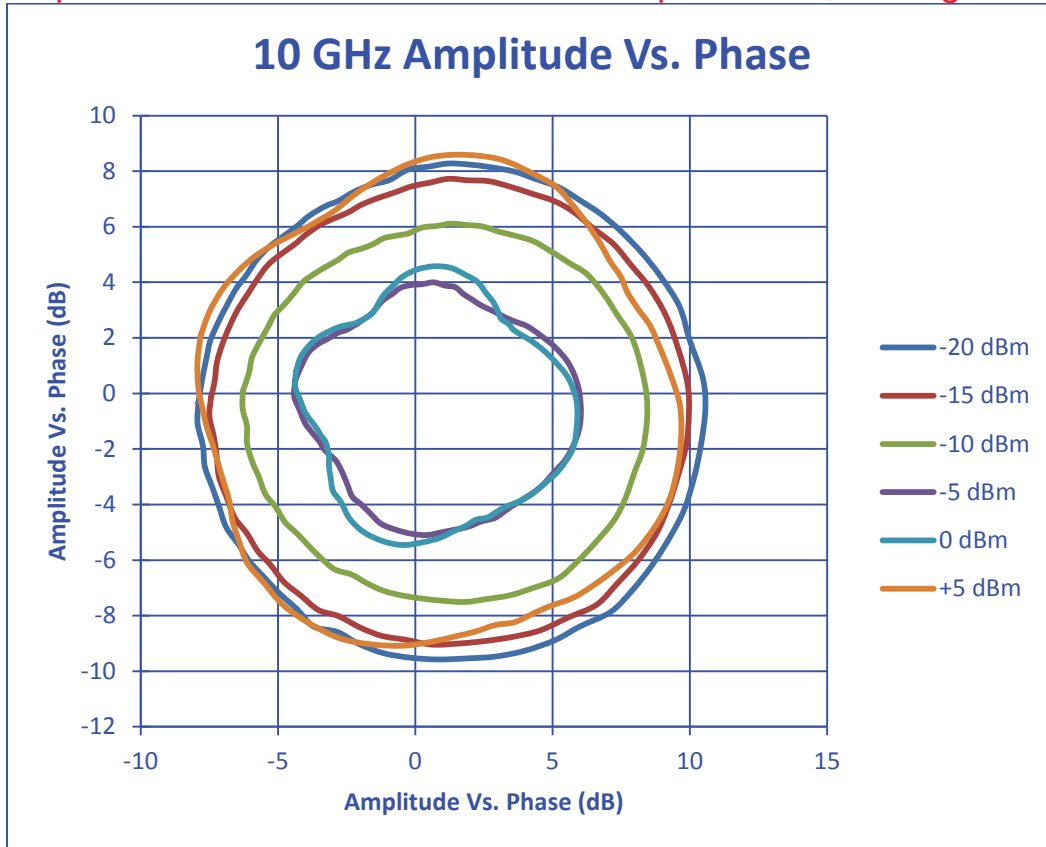


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TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 10 GHz over Input Power, 25 degrees C



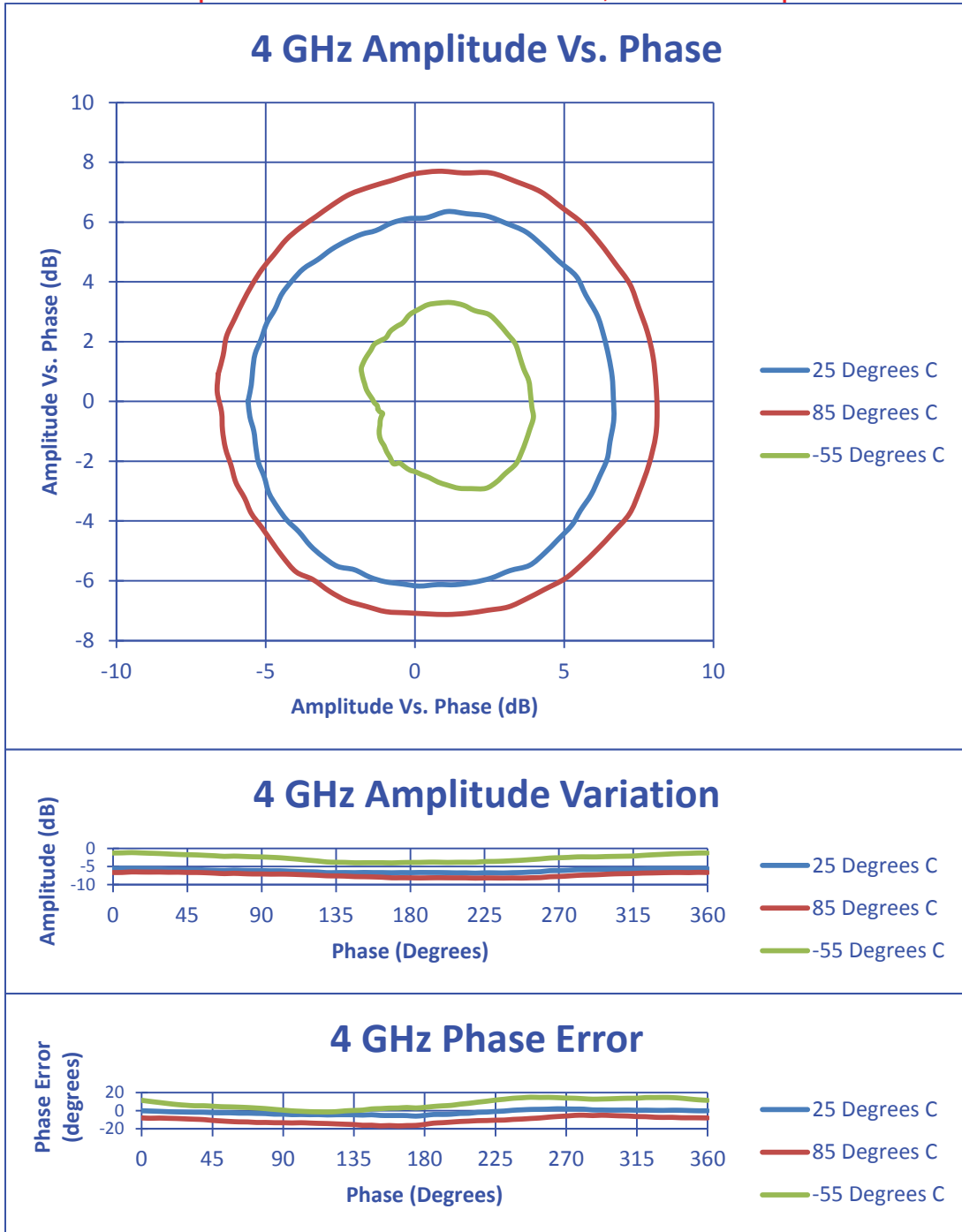
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TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase and Amplitude Variation over Temperature

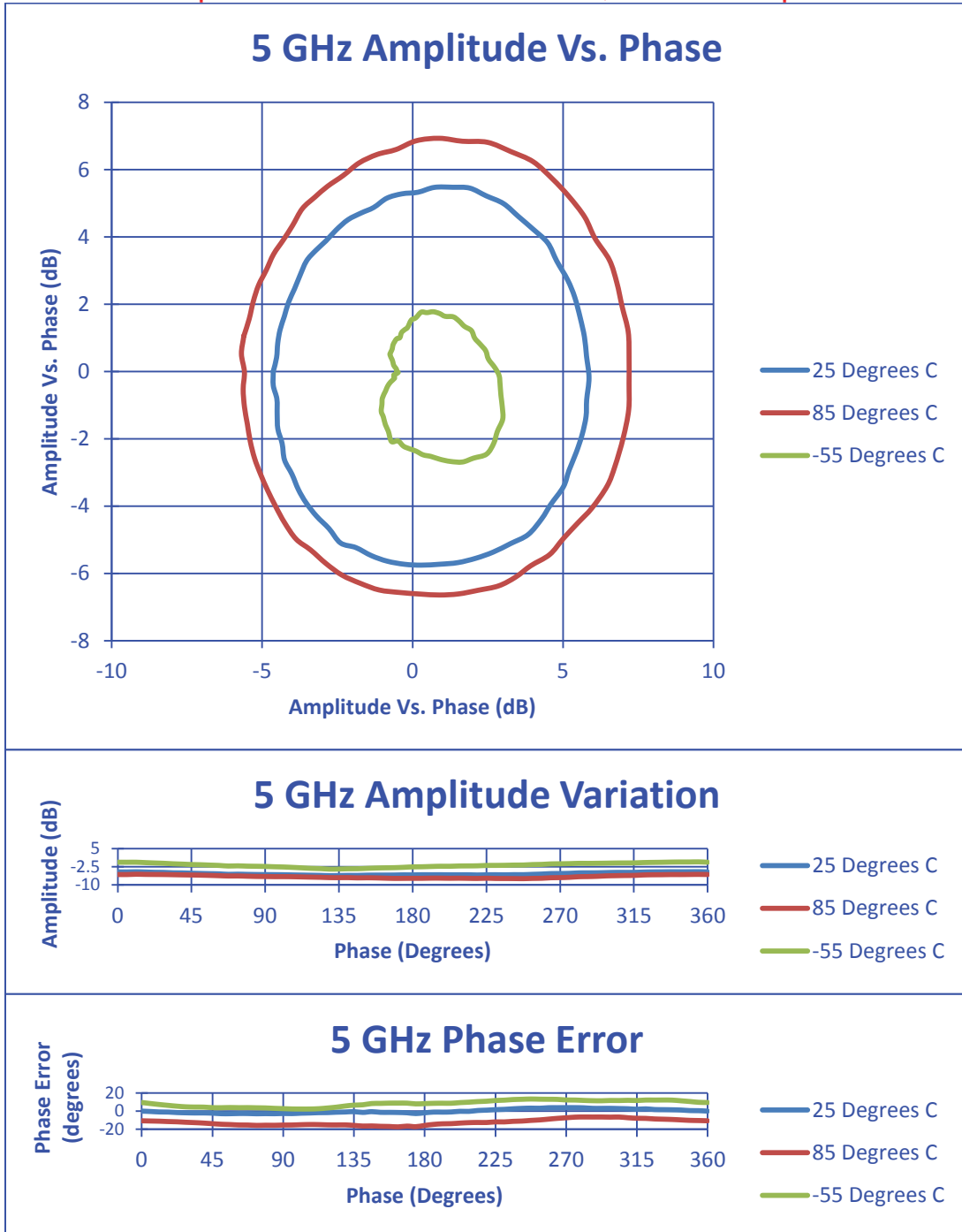
Amplitude and Phase at 4 GHz, -10 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

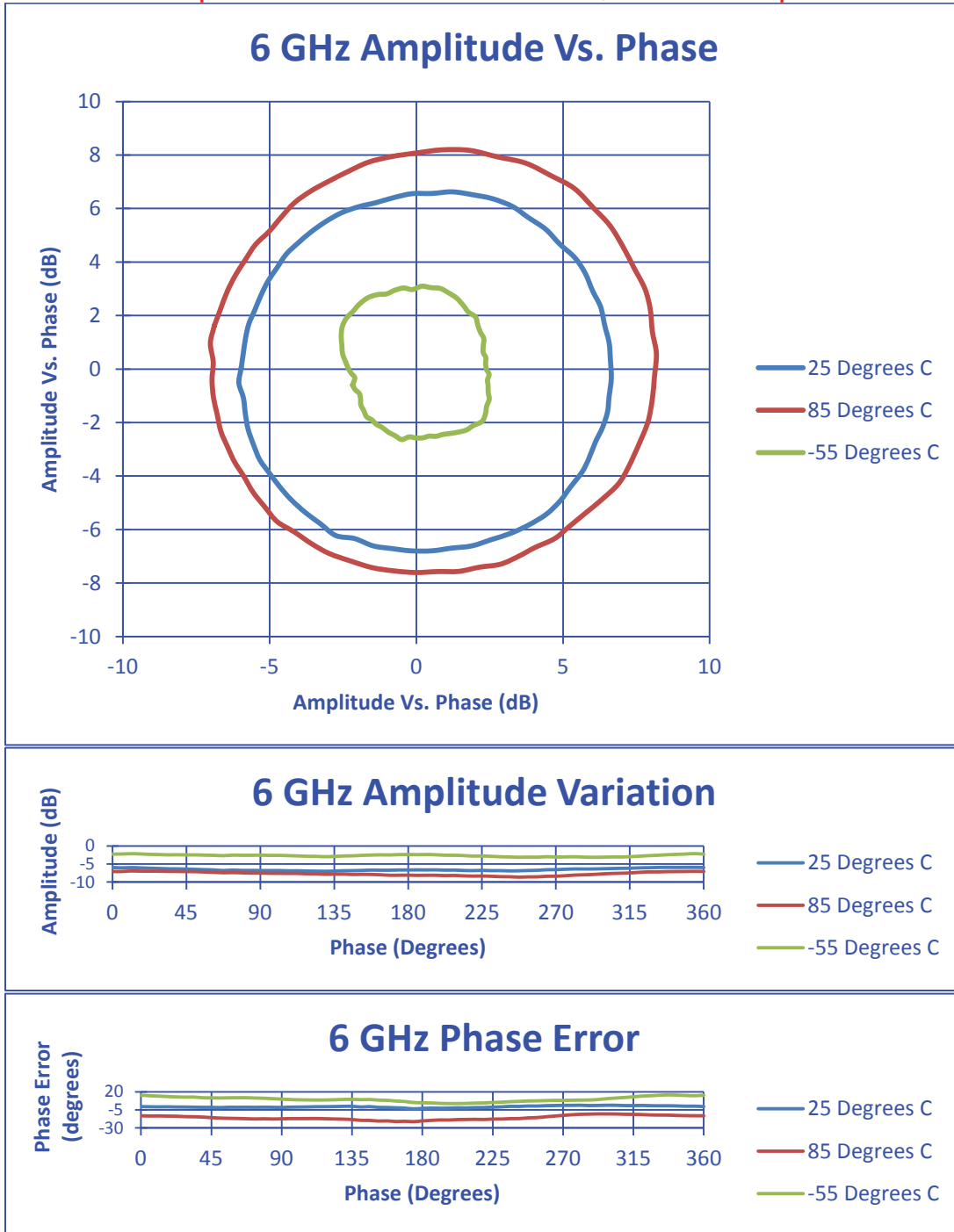
Amplitude and Phase at 5 GHz, -10 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

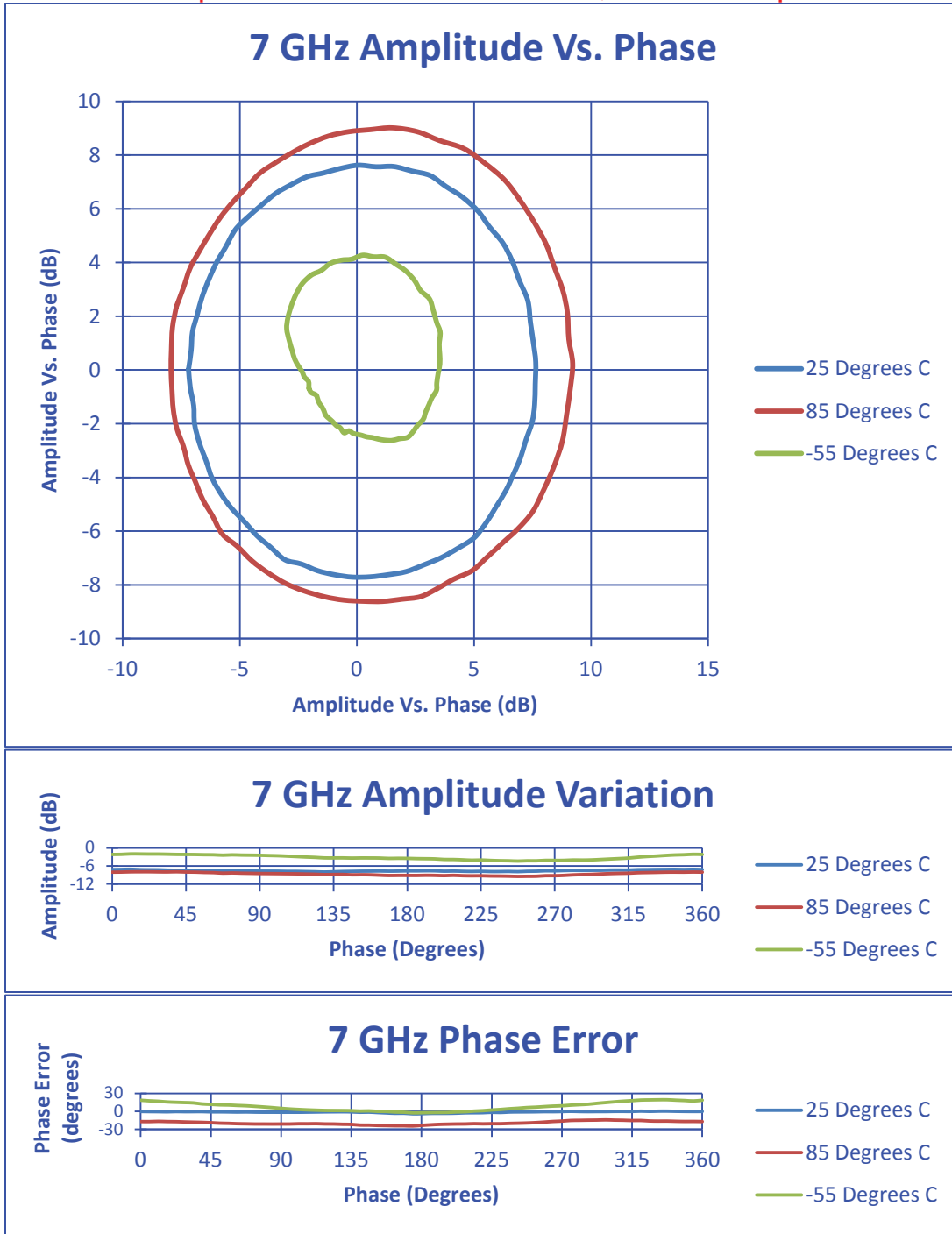
Amplitude and Phase at 6 GHz, -10 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

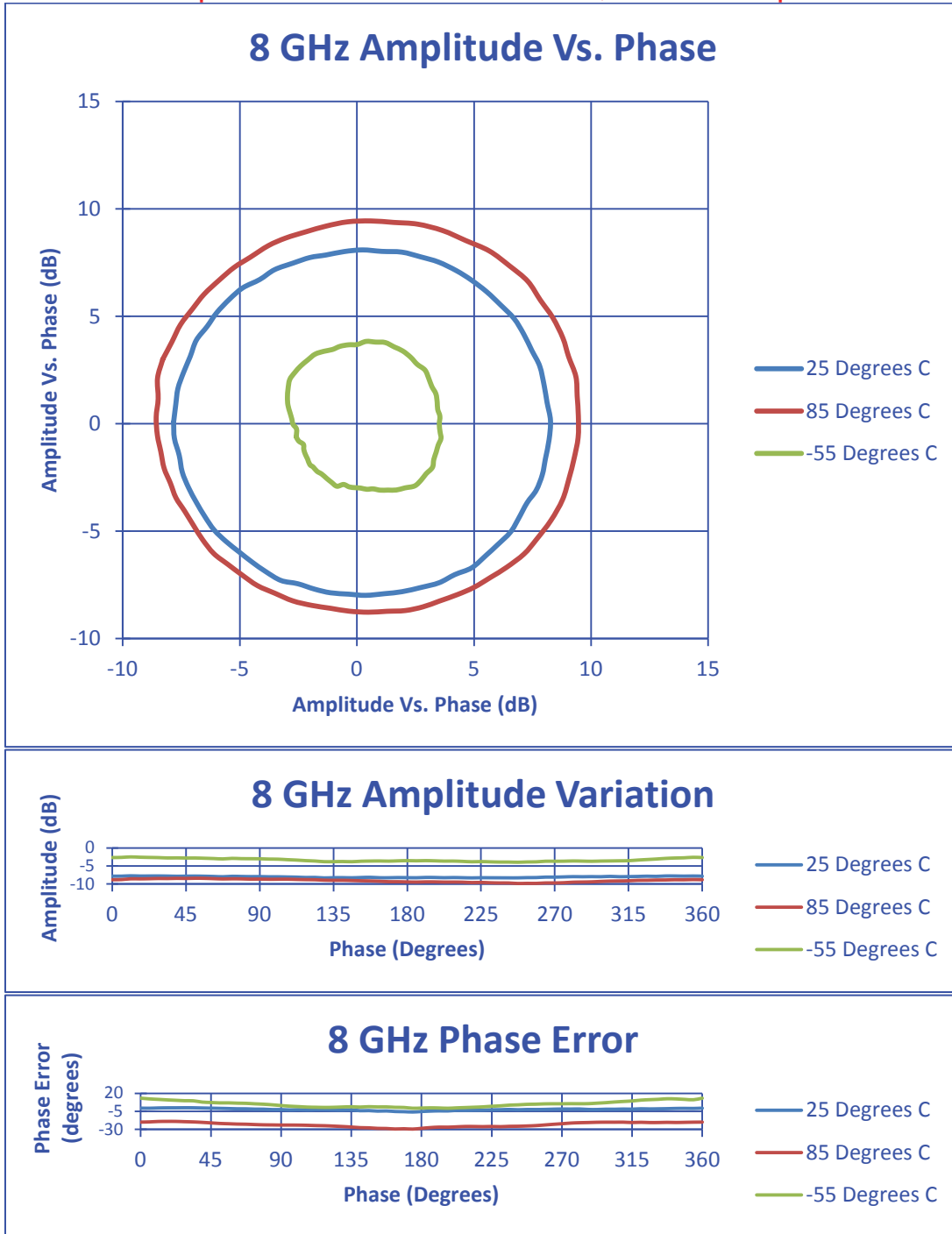
Amplitude and Phase at 7 GHz, -10 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

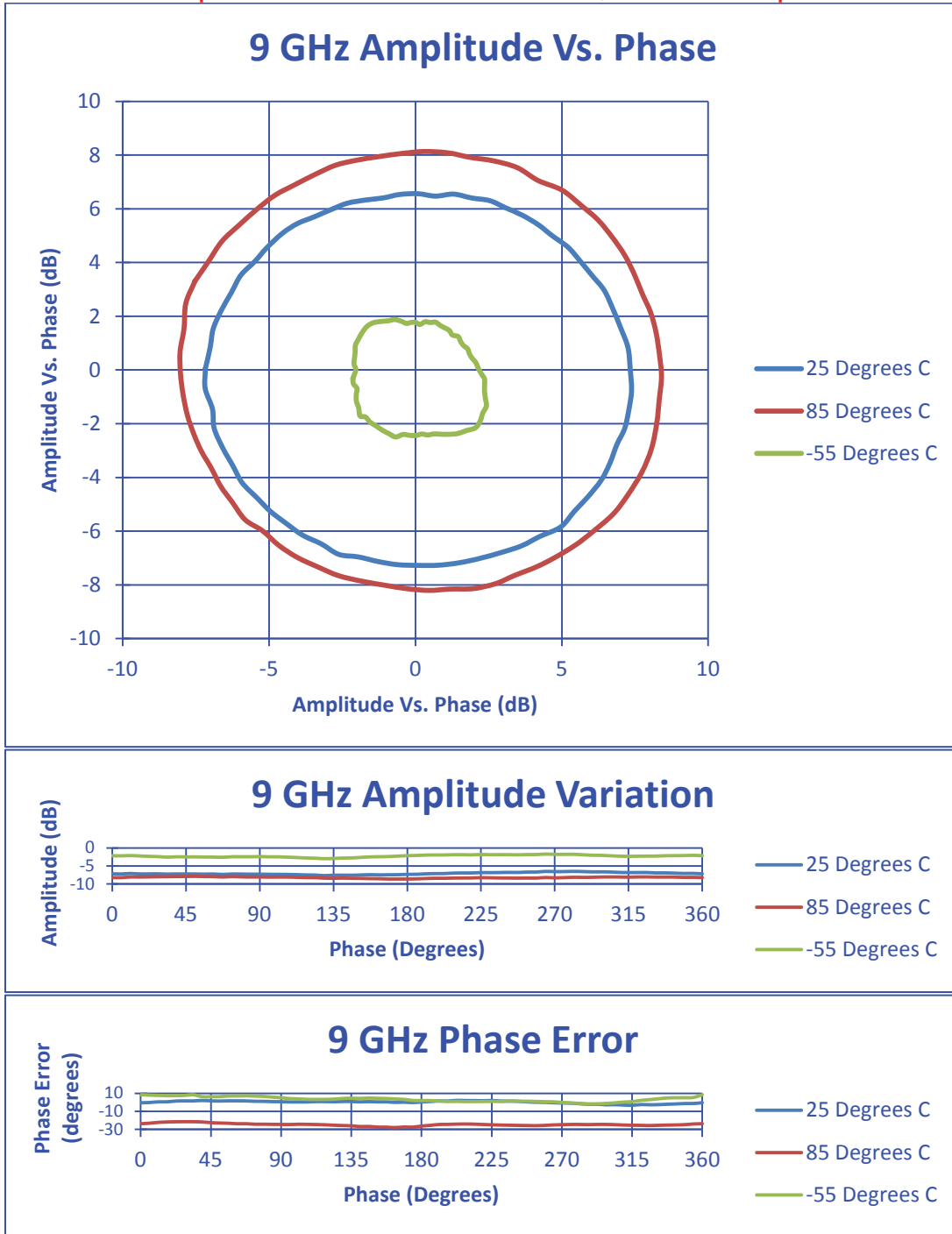
Amplitude and Phase at 8 GHz, -10 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

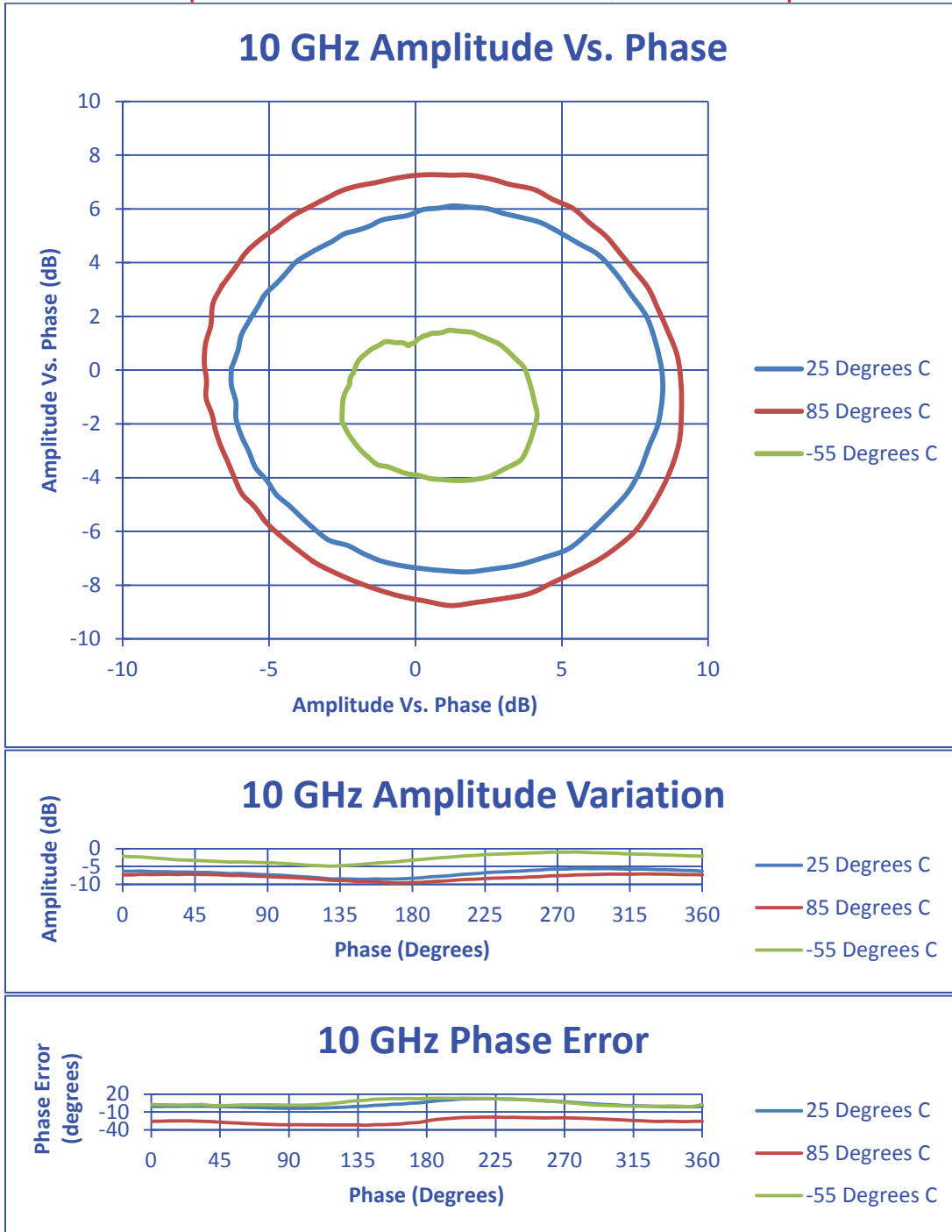
Amplitude and Phase at 9 GHz, -10 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

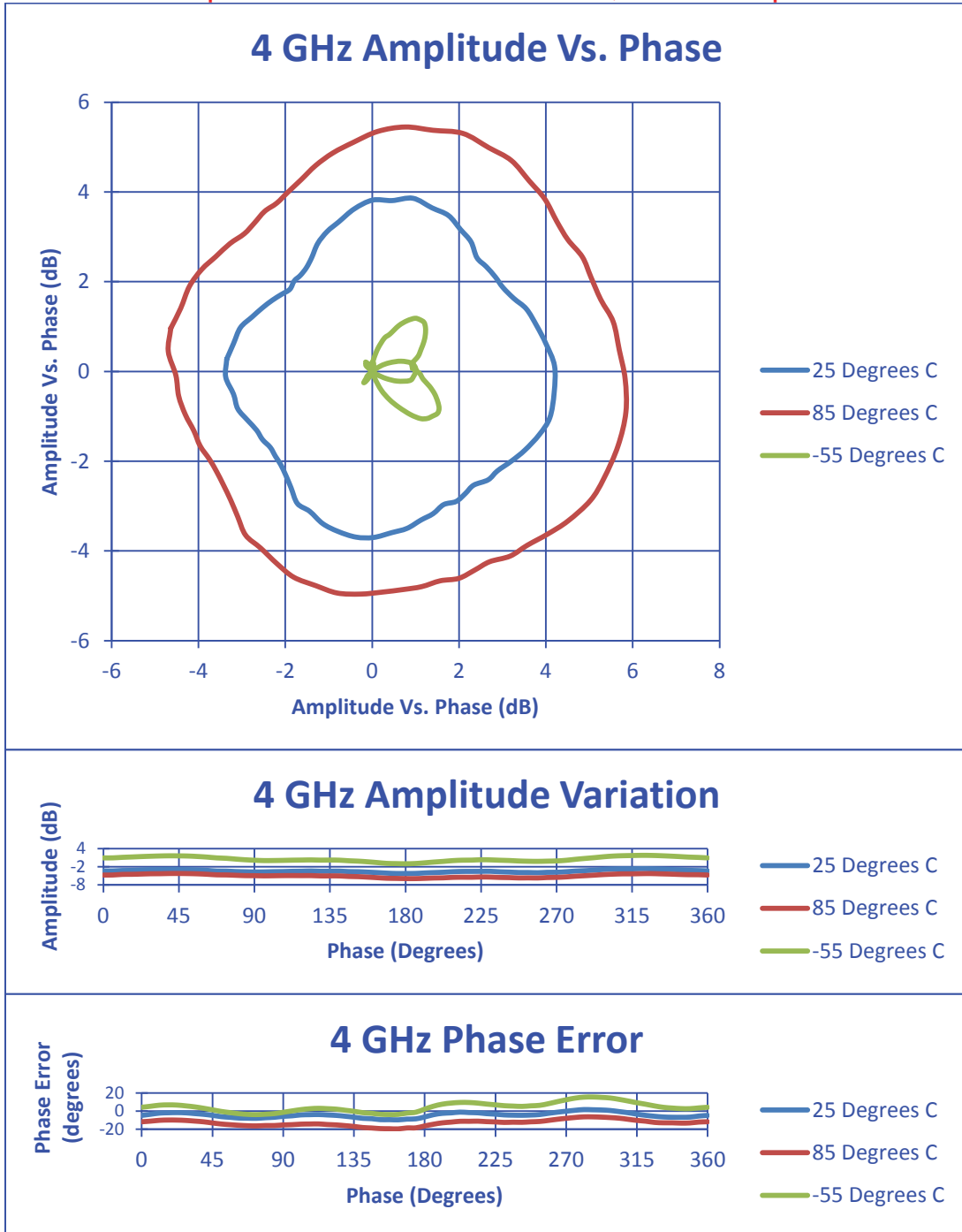
Amplitude and Phase at 10 GHz, -10 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

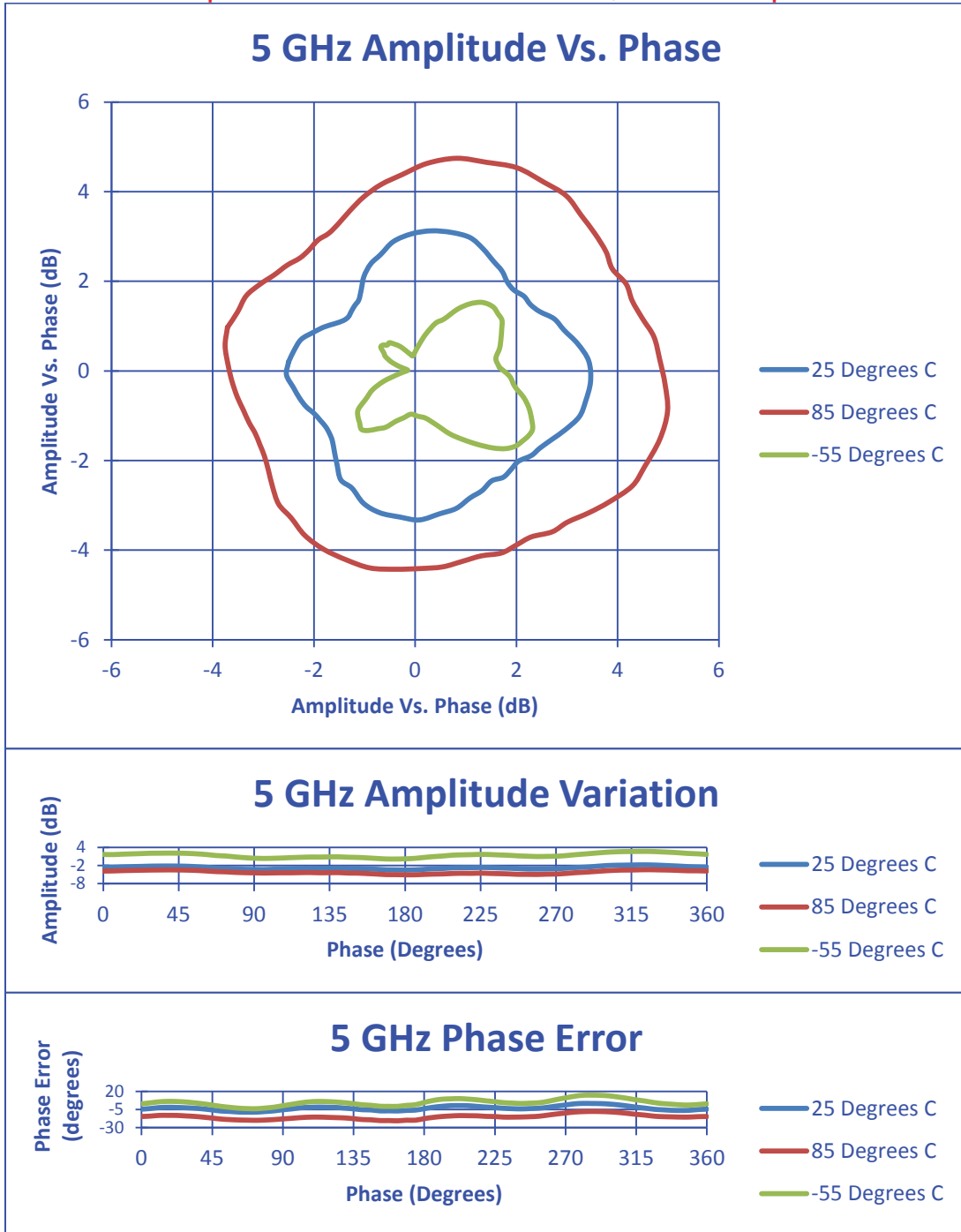
Amplitude and Phase at 4 GHz, -5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

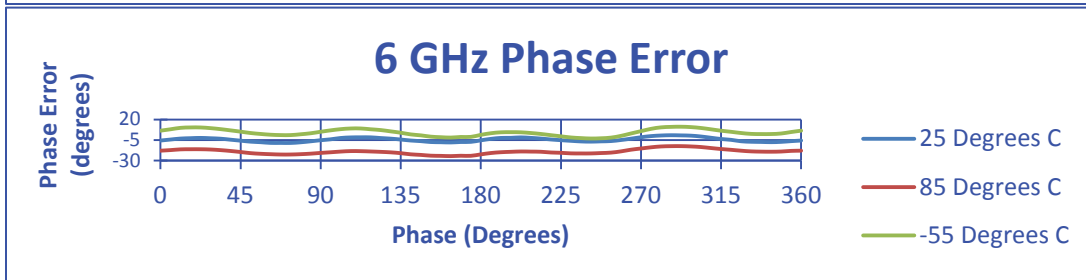
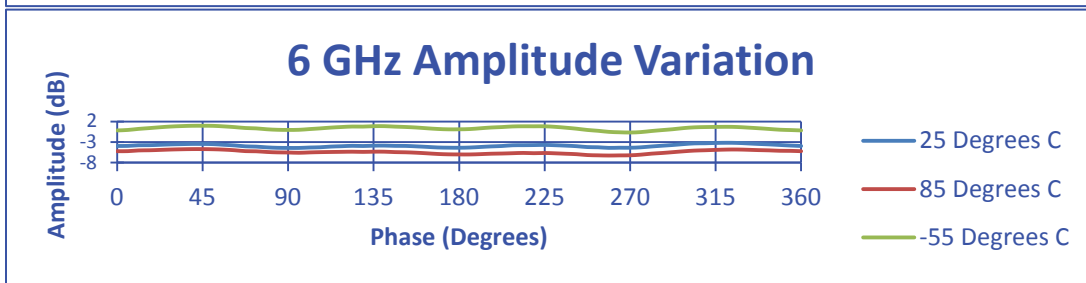
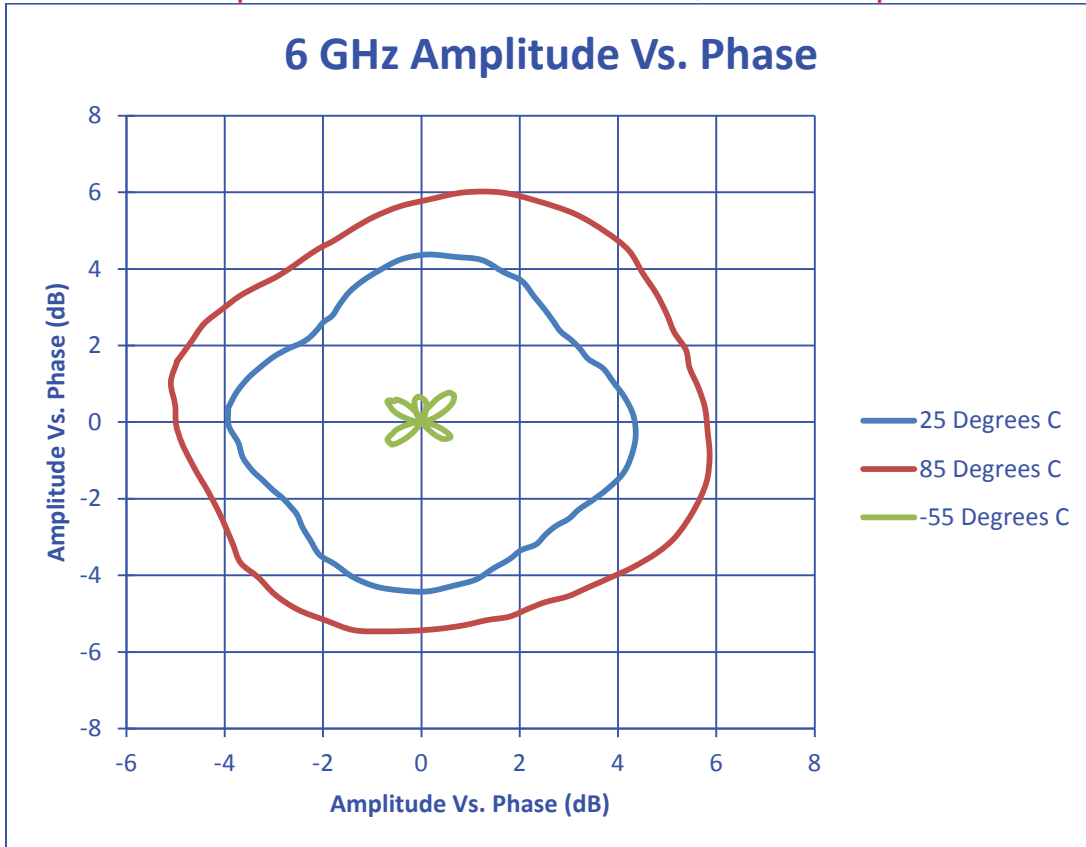
Amplitude and Phase at 4 GHz, -5 dBm Input





**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

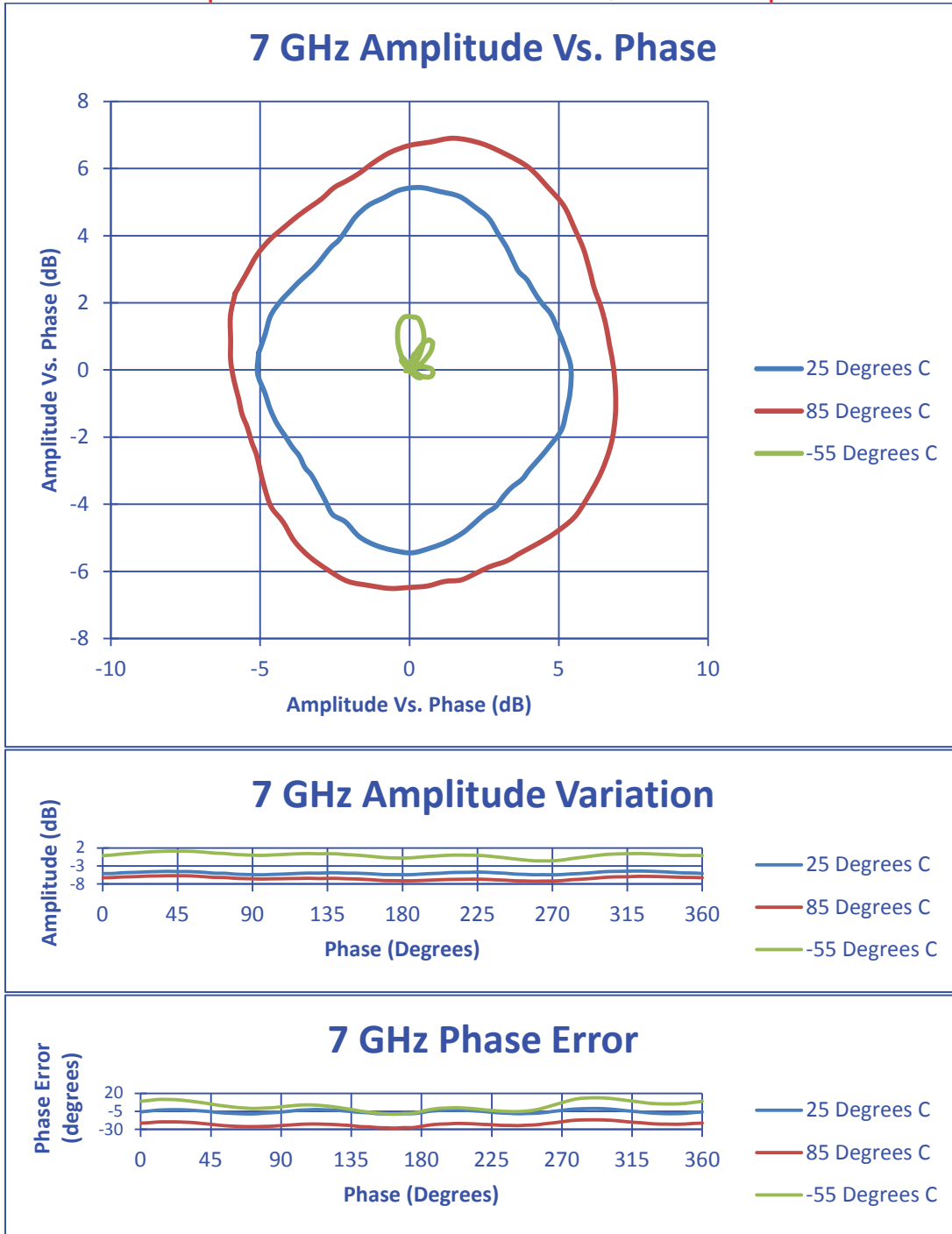
Amplitude and Phase at 6 GHz, -5 dBm Input





**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

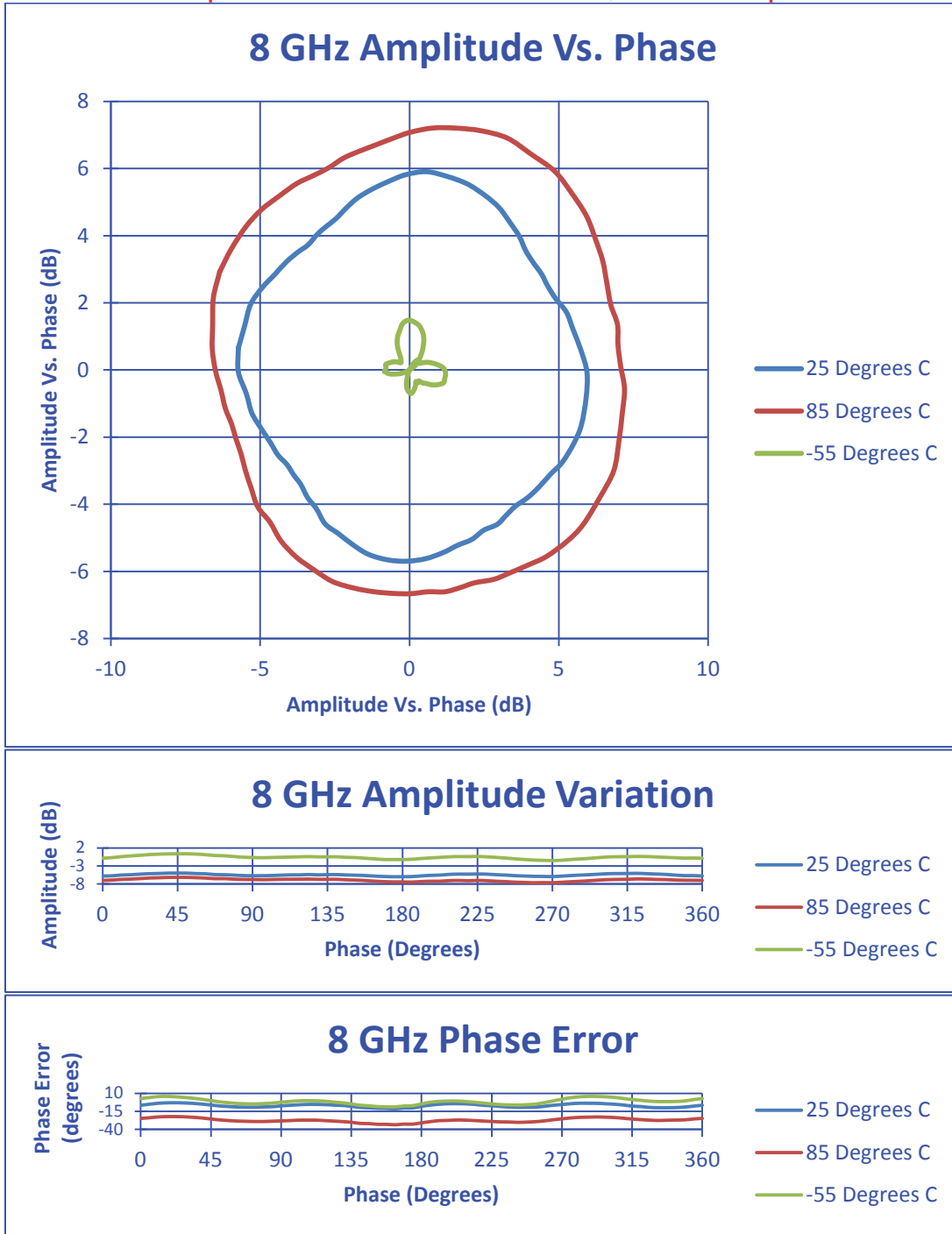
Amplitude and Phase at 7 GHz, -5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 8 GHz, -5 dBm Input

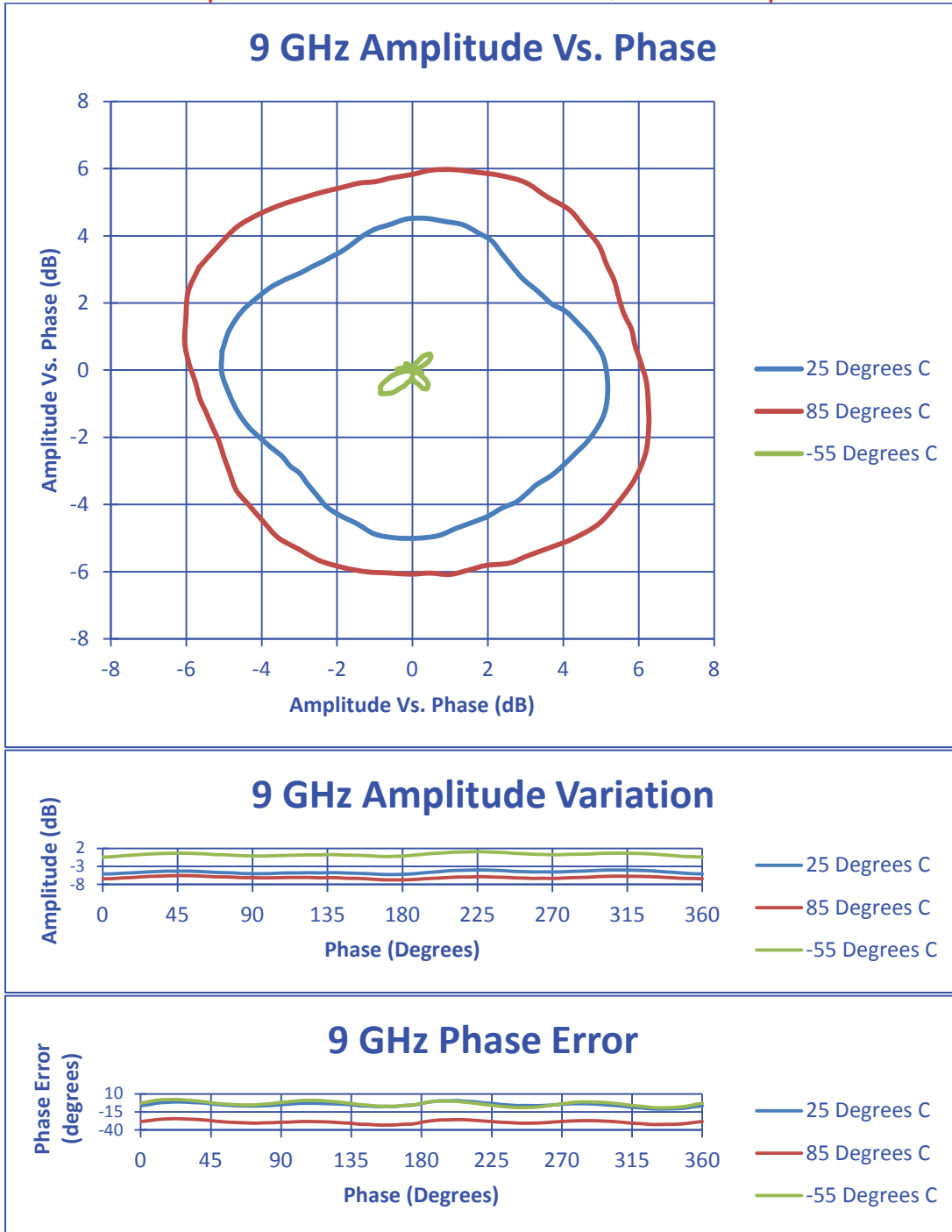


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TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

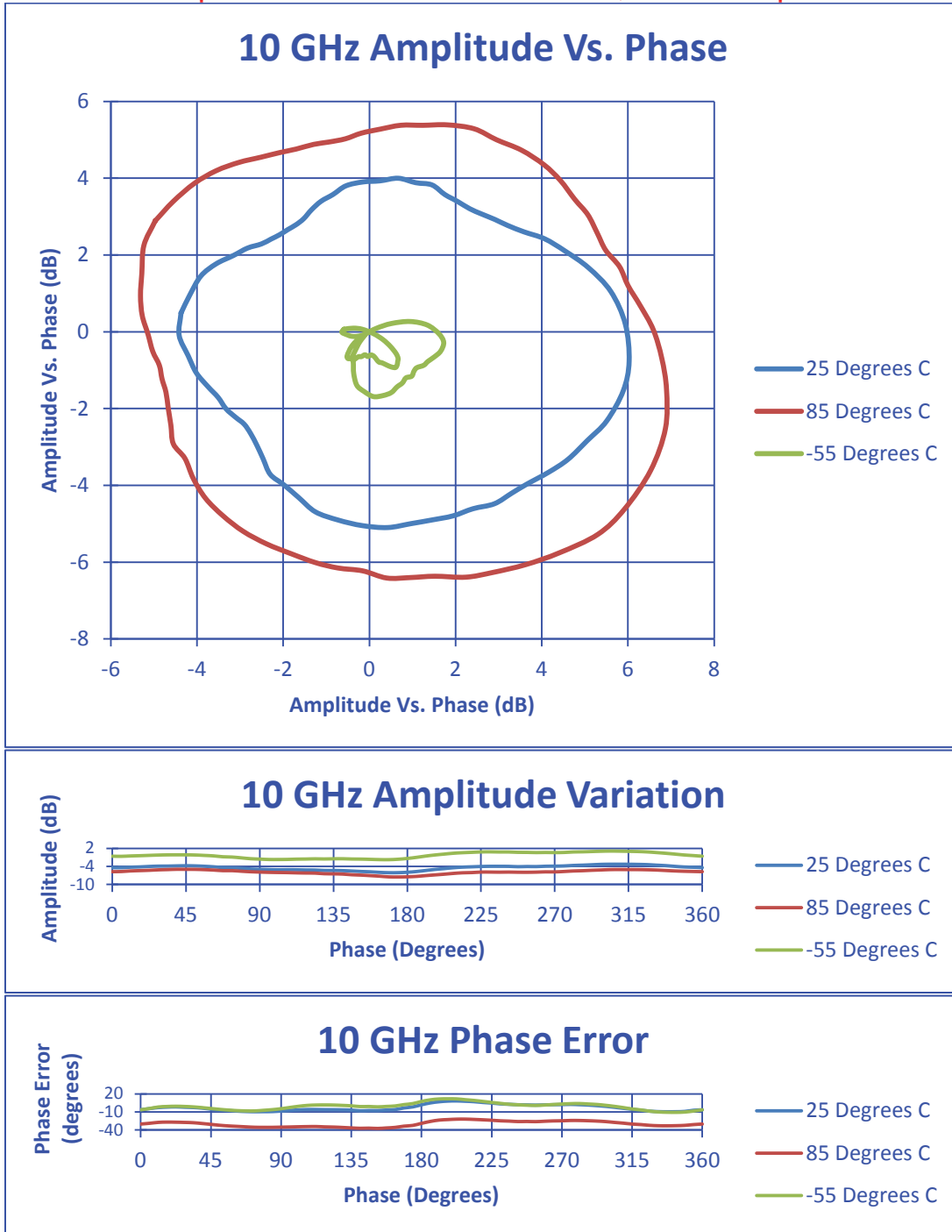
Amplitude and Phase at 9 GHz, -5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

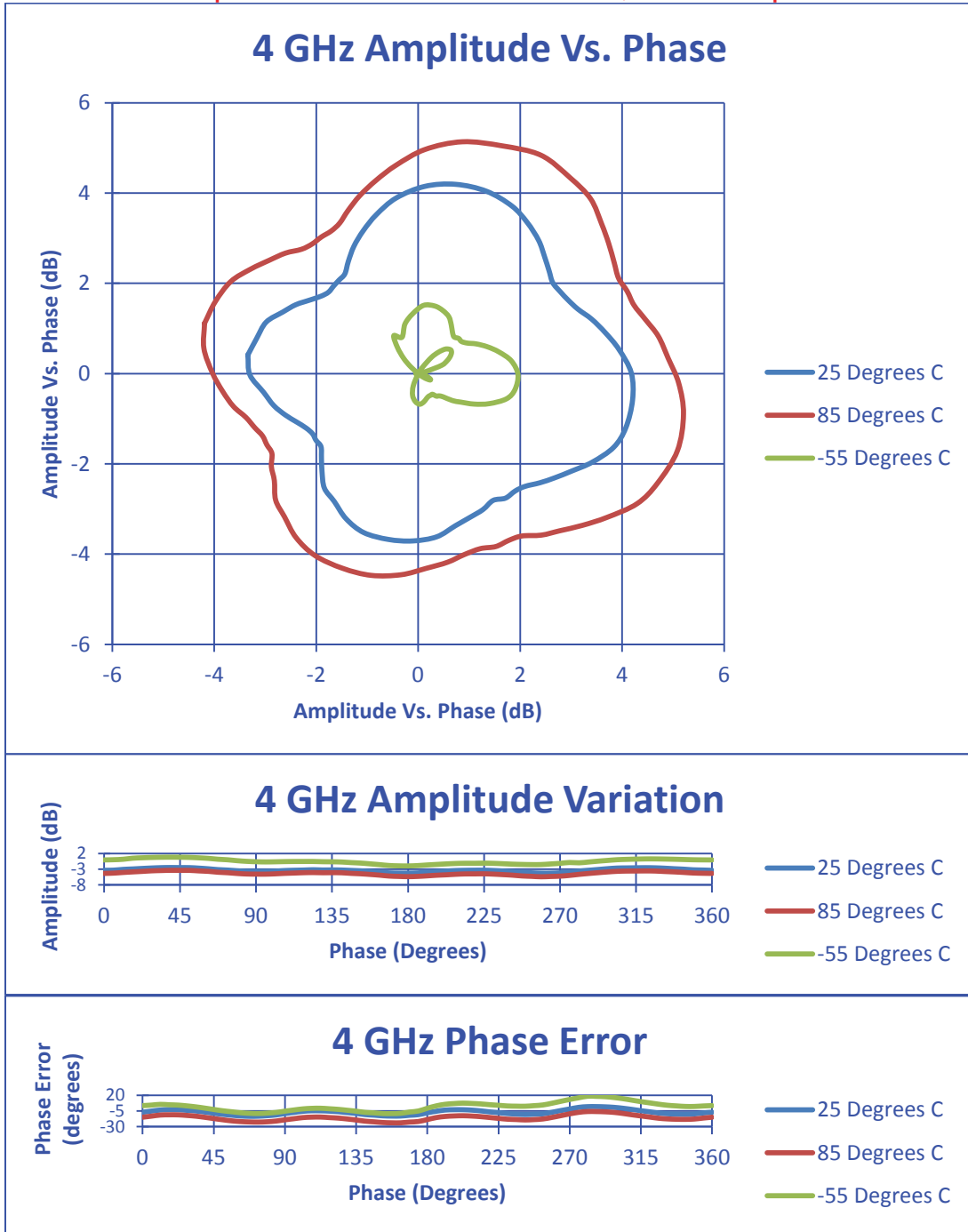
Amplitude and Phase at 10 GHz, -5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

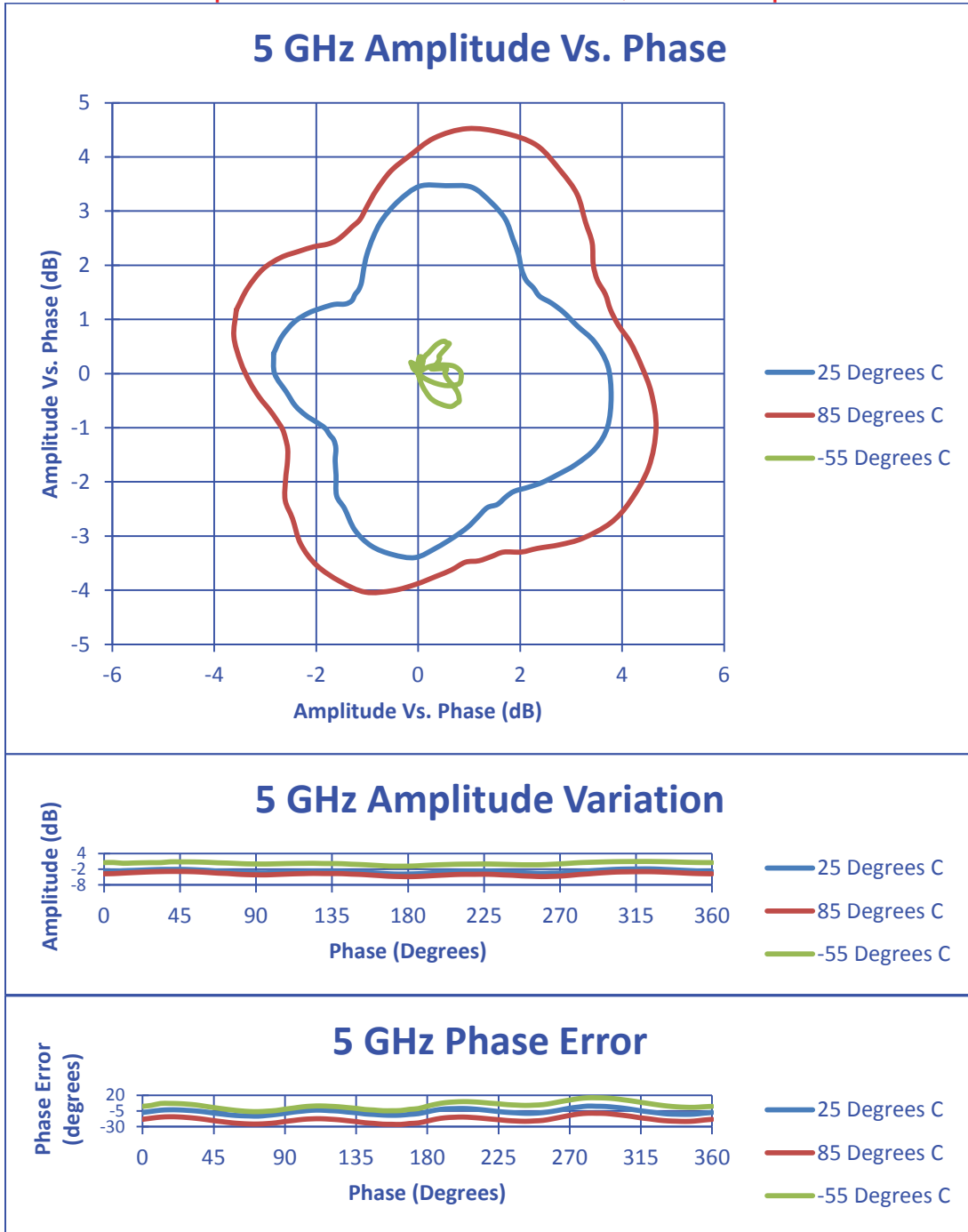
Amplitude and Phase at 4 GHz, 0 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

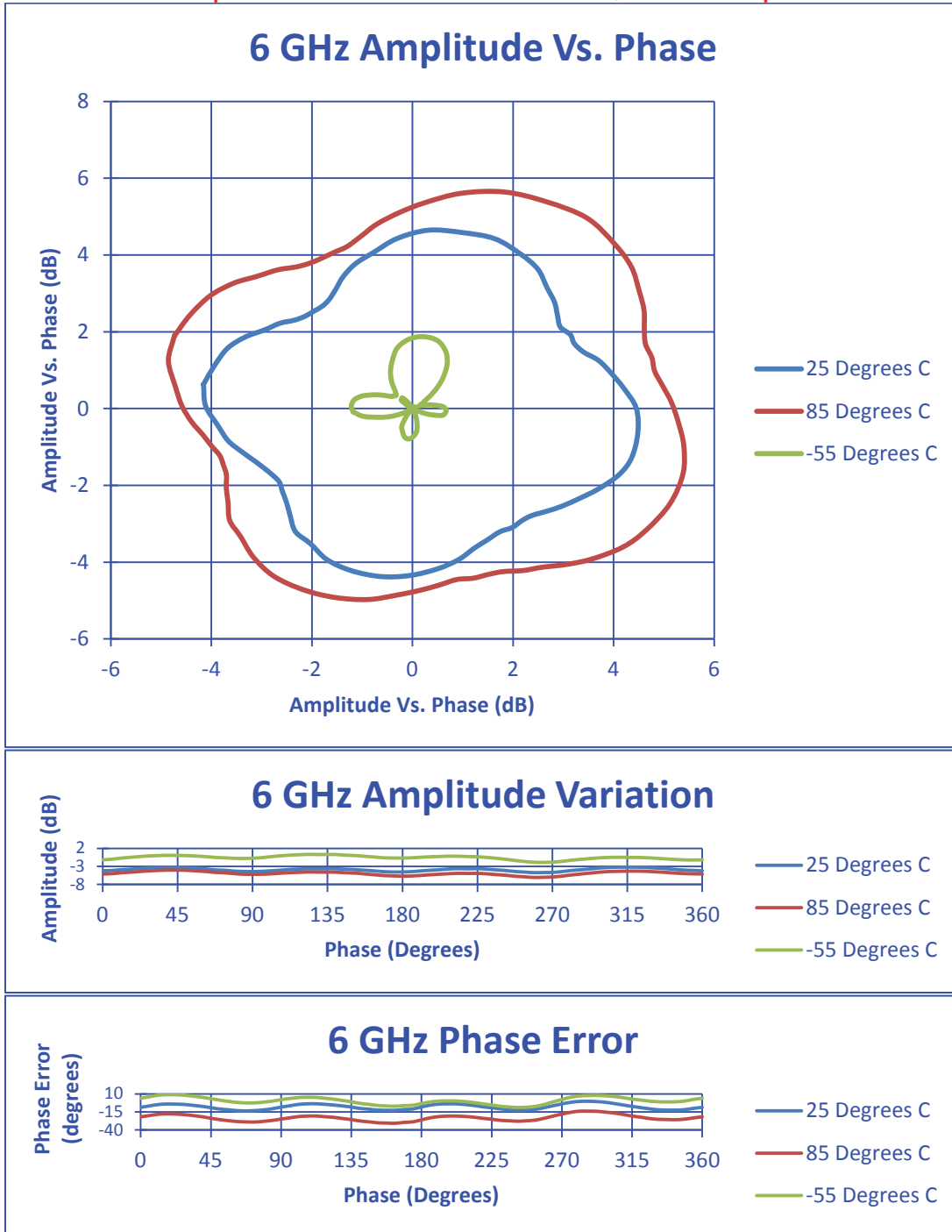
Amplitude and Phase at 5 GHz, 0 dBm Input





**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

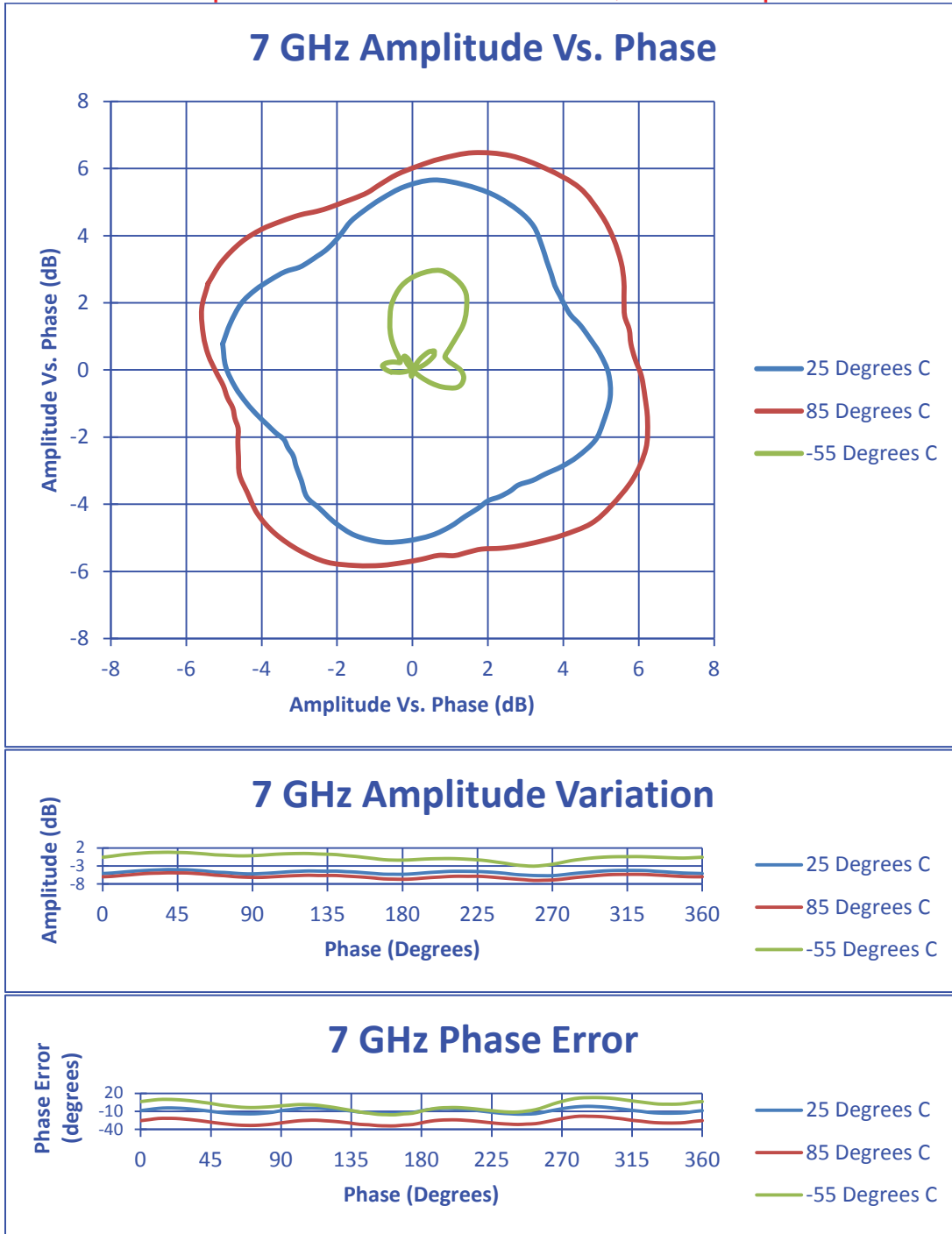
Amplitude and Phase at 6 GHz, 0 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

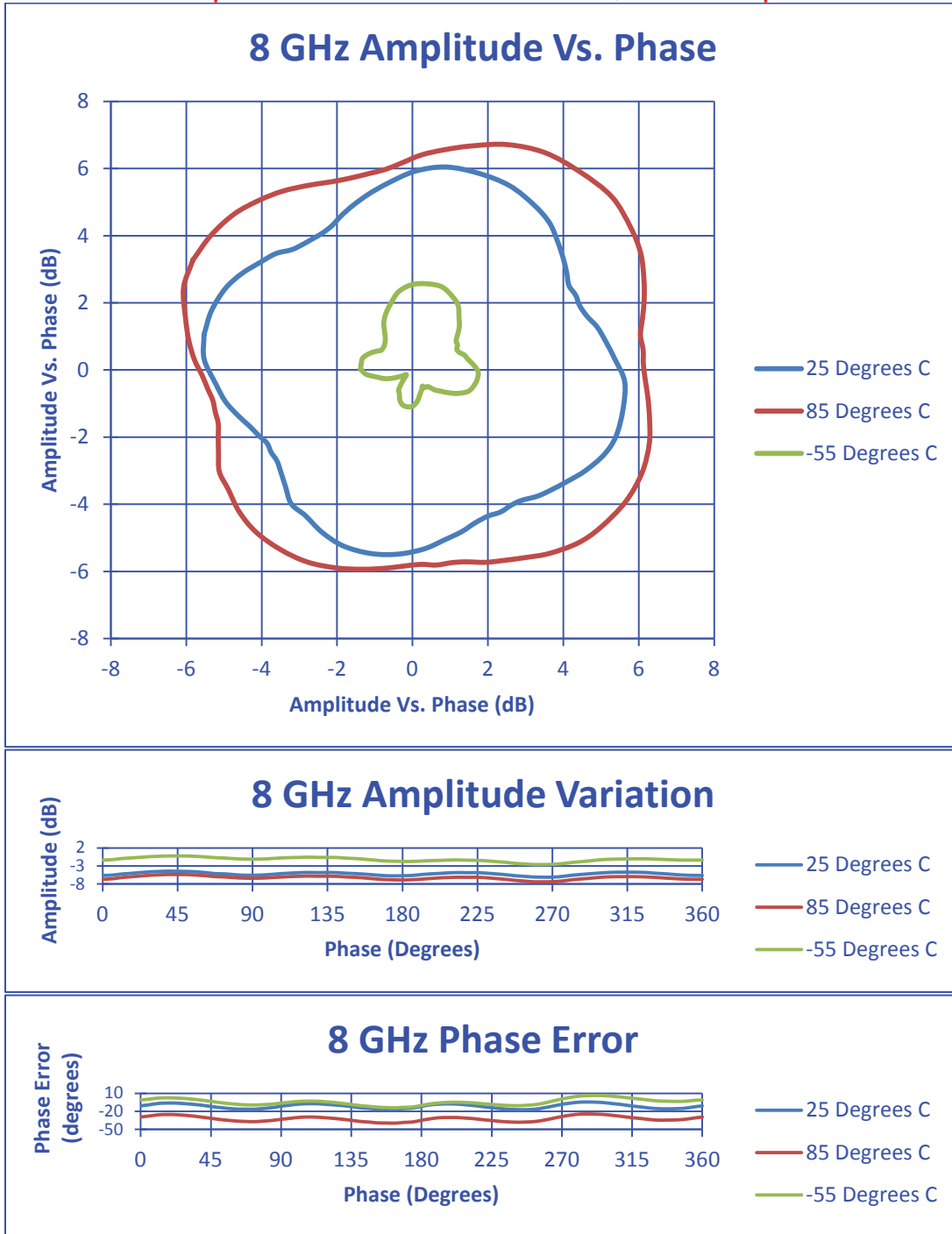
Amplitude and Phase at 7 GHz, 0 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

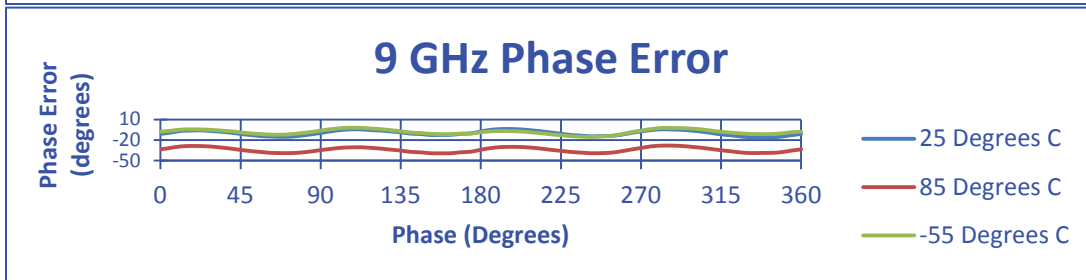
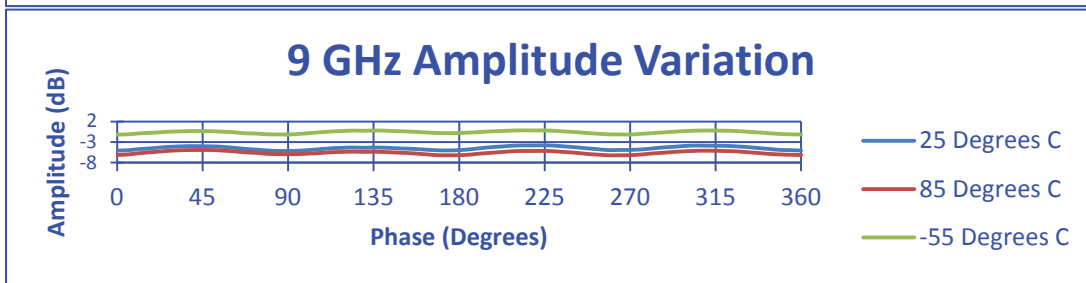
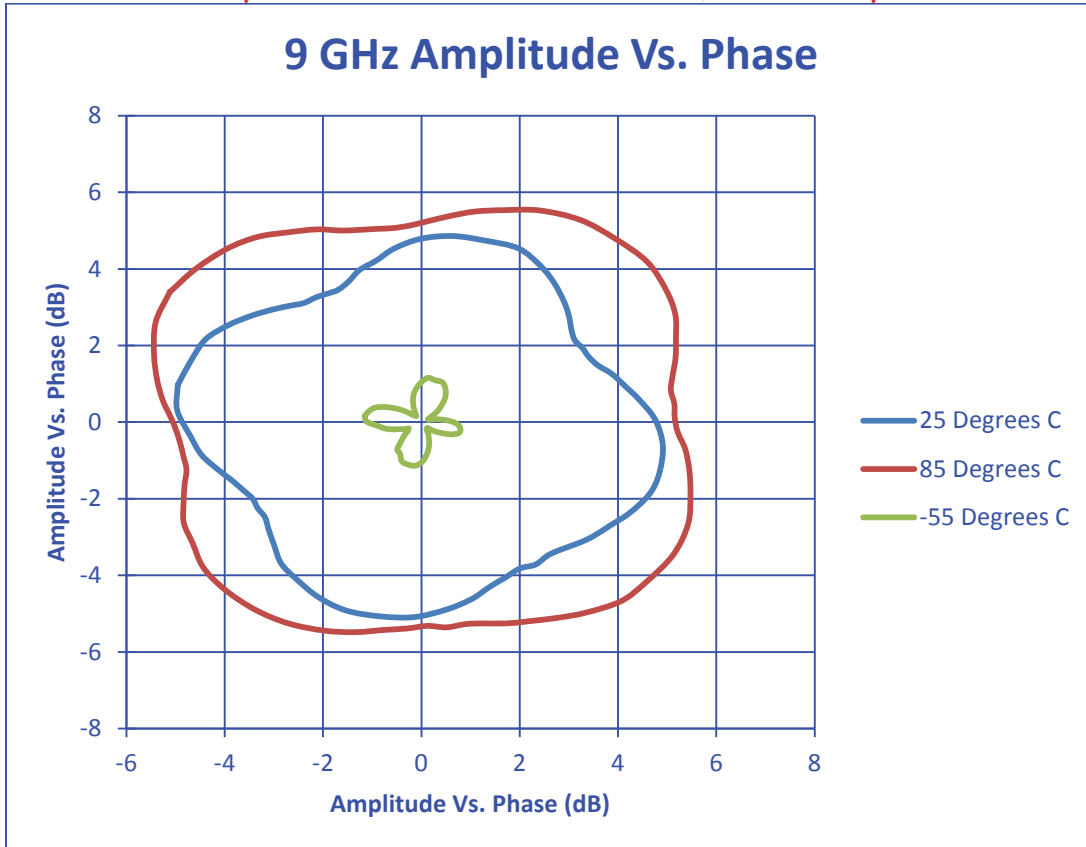
Amplitude and Phase at 8 GHz, 0 dBm Input





**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

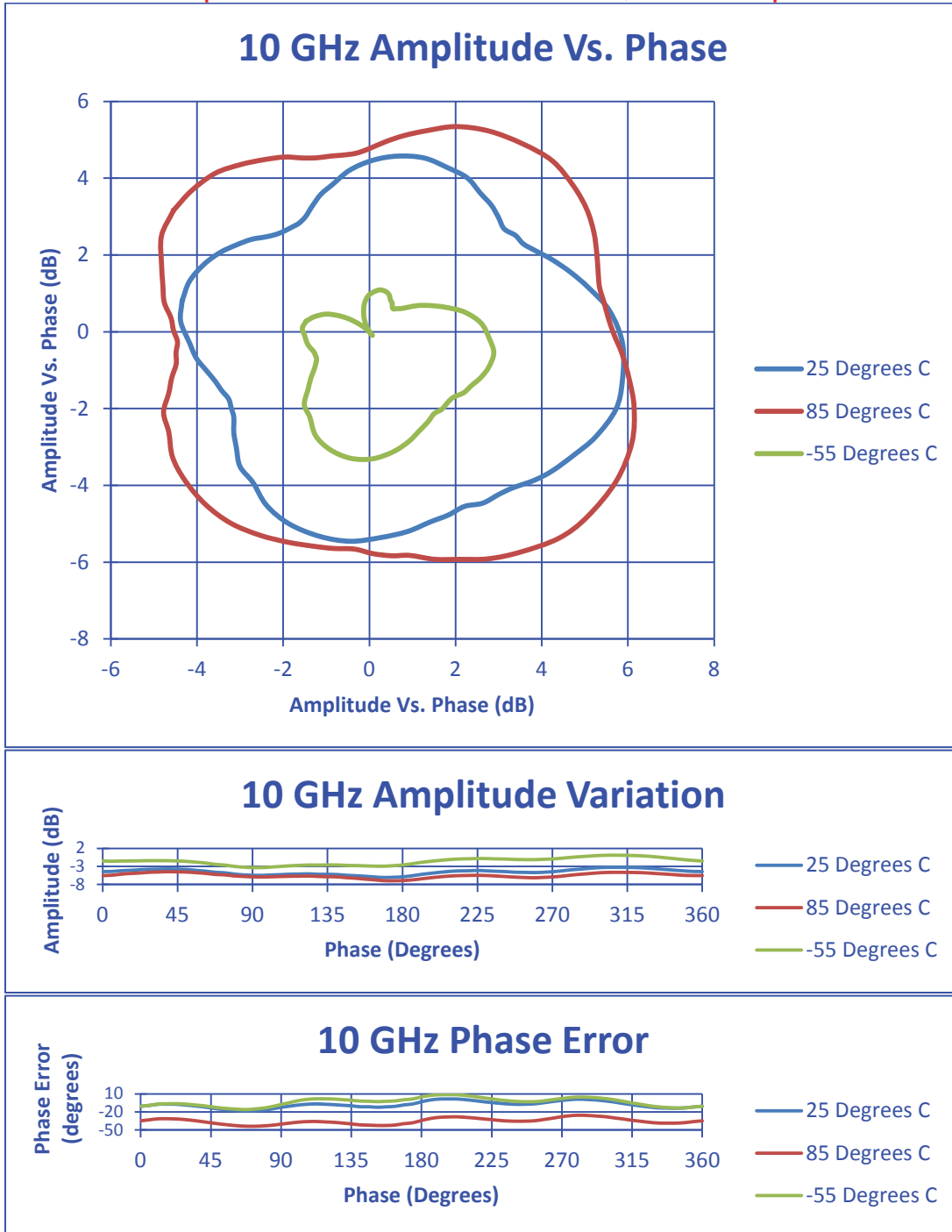
Amplitude and Phase at 9 GHz, 0 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

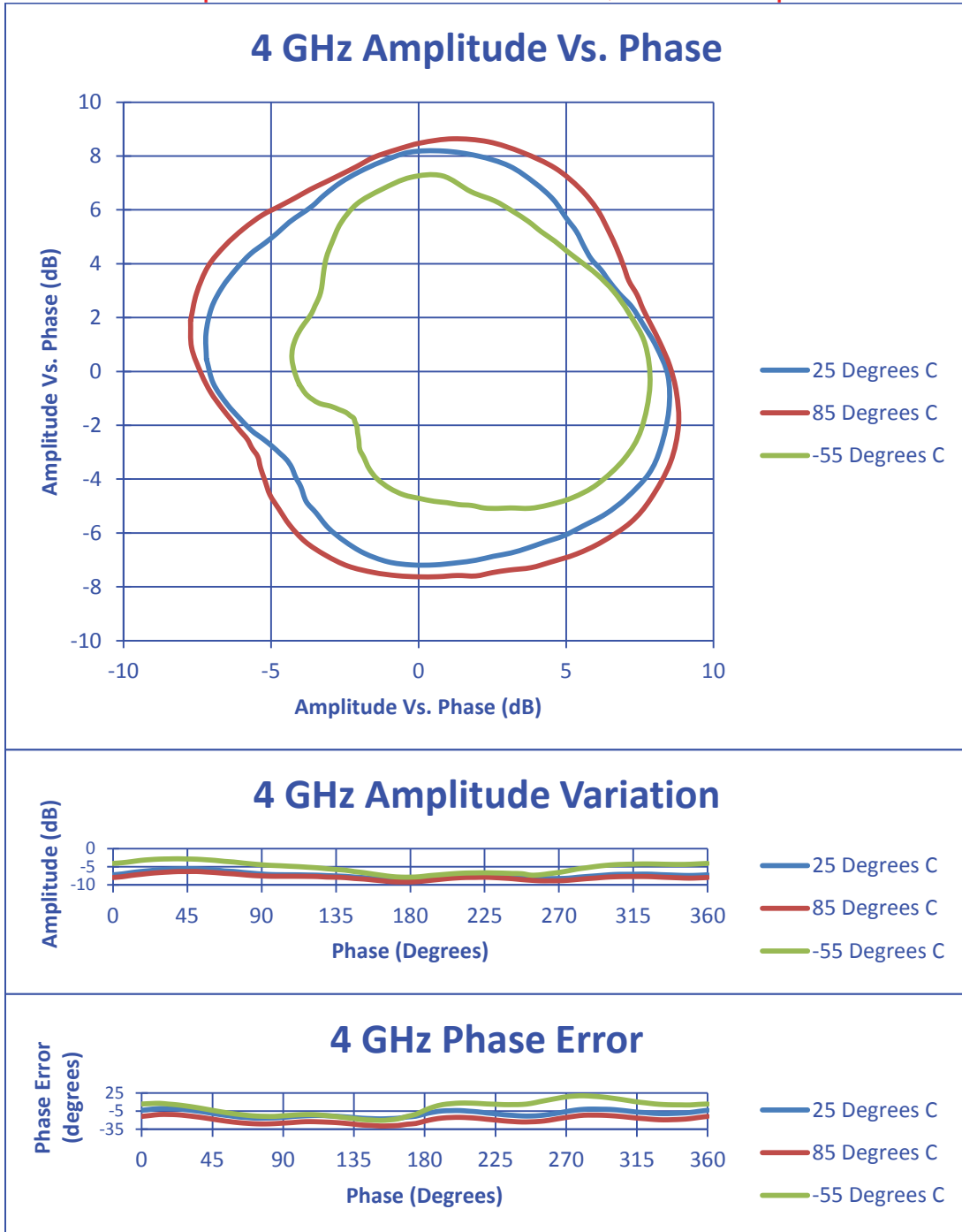
Amplitude and Phase at 10 GHz, 0 dBm Input





**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

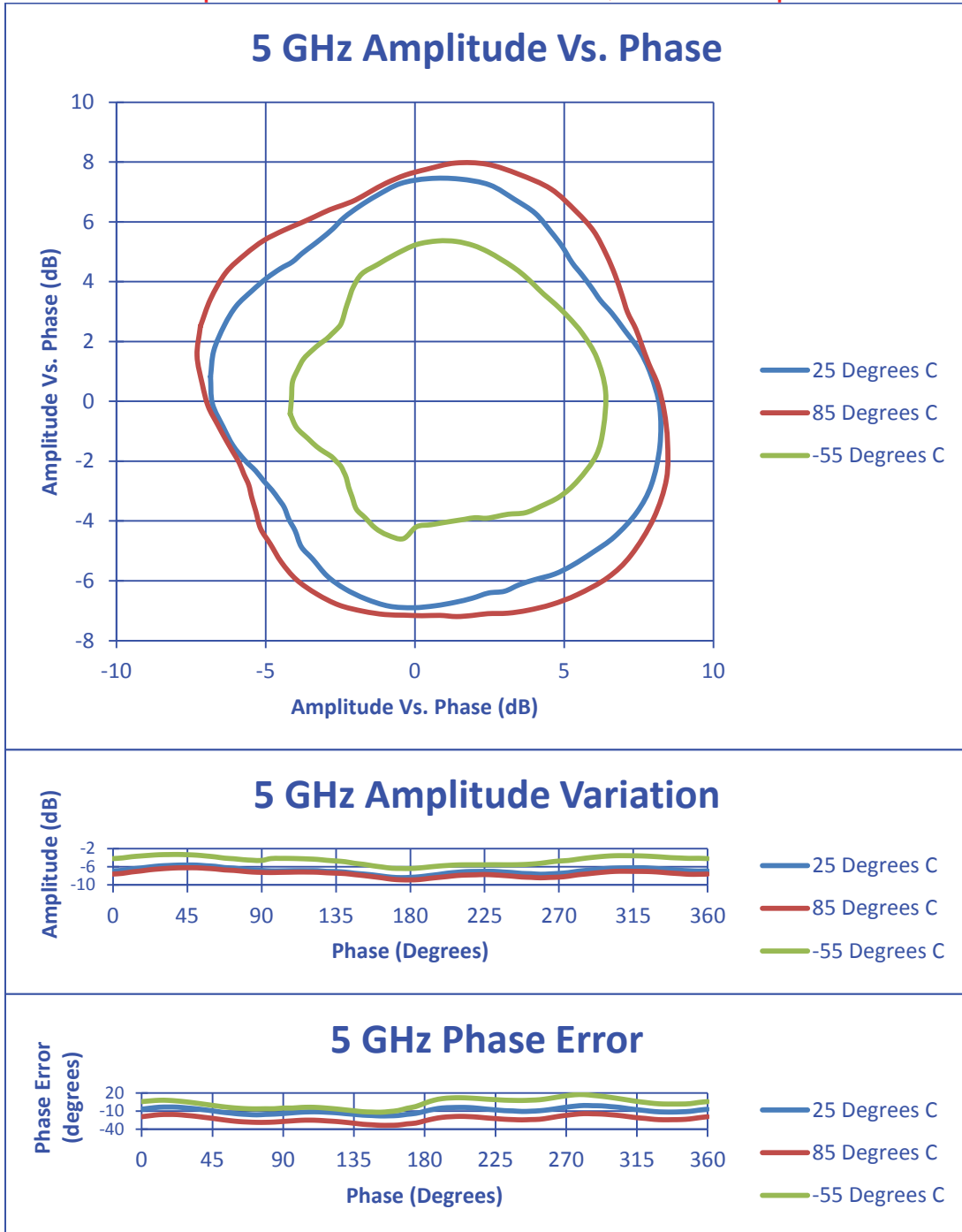
Amplitude and Phase at 4 GHz, +5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

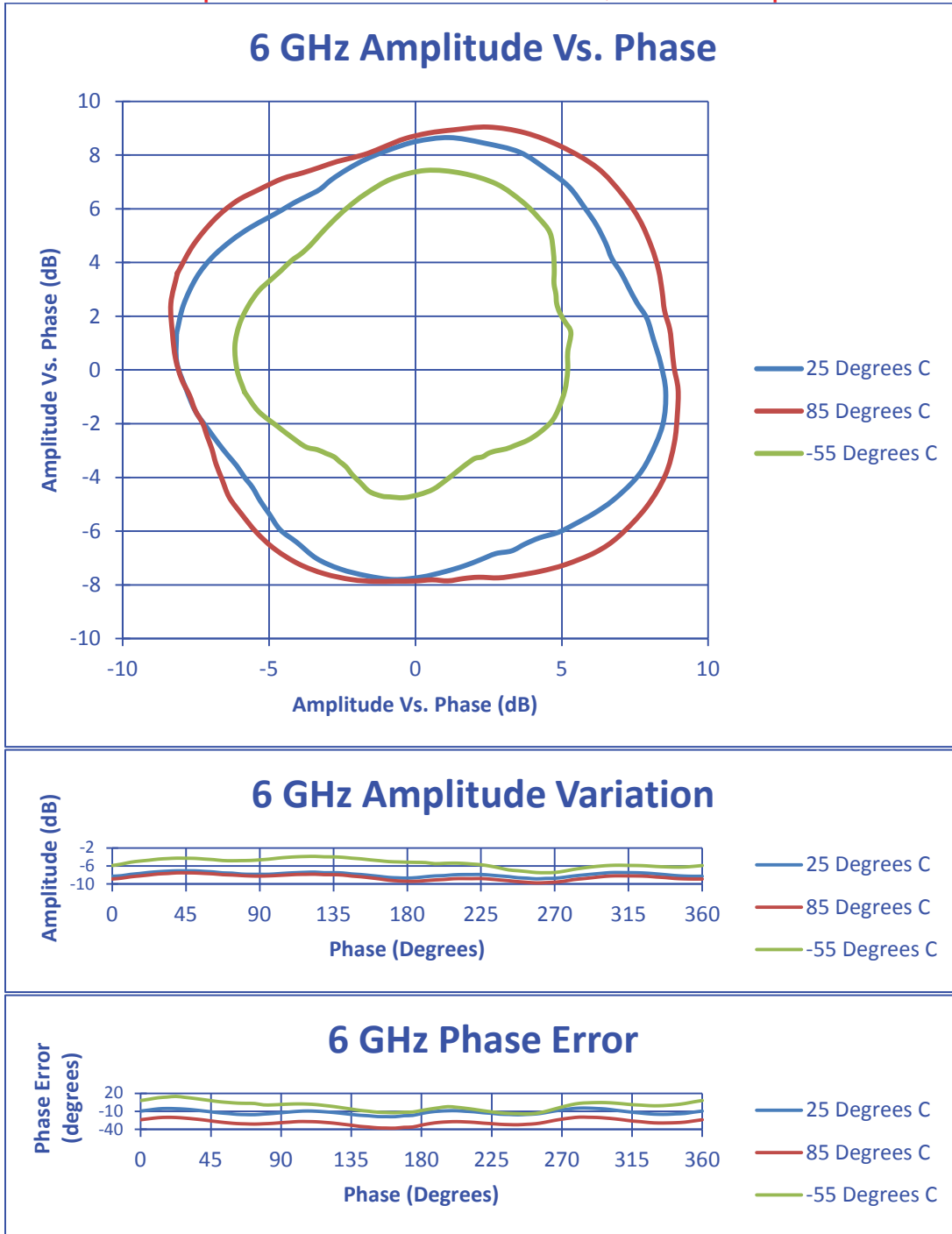
Amplitude and Phase at 5 GHz, +5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

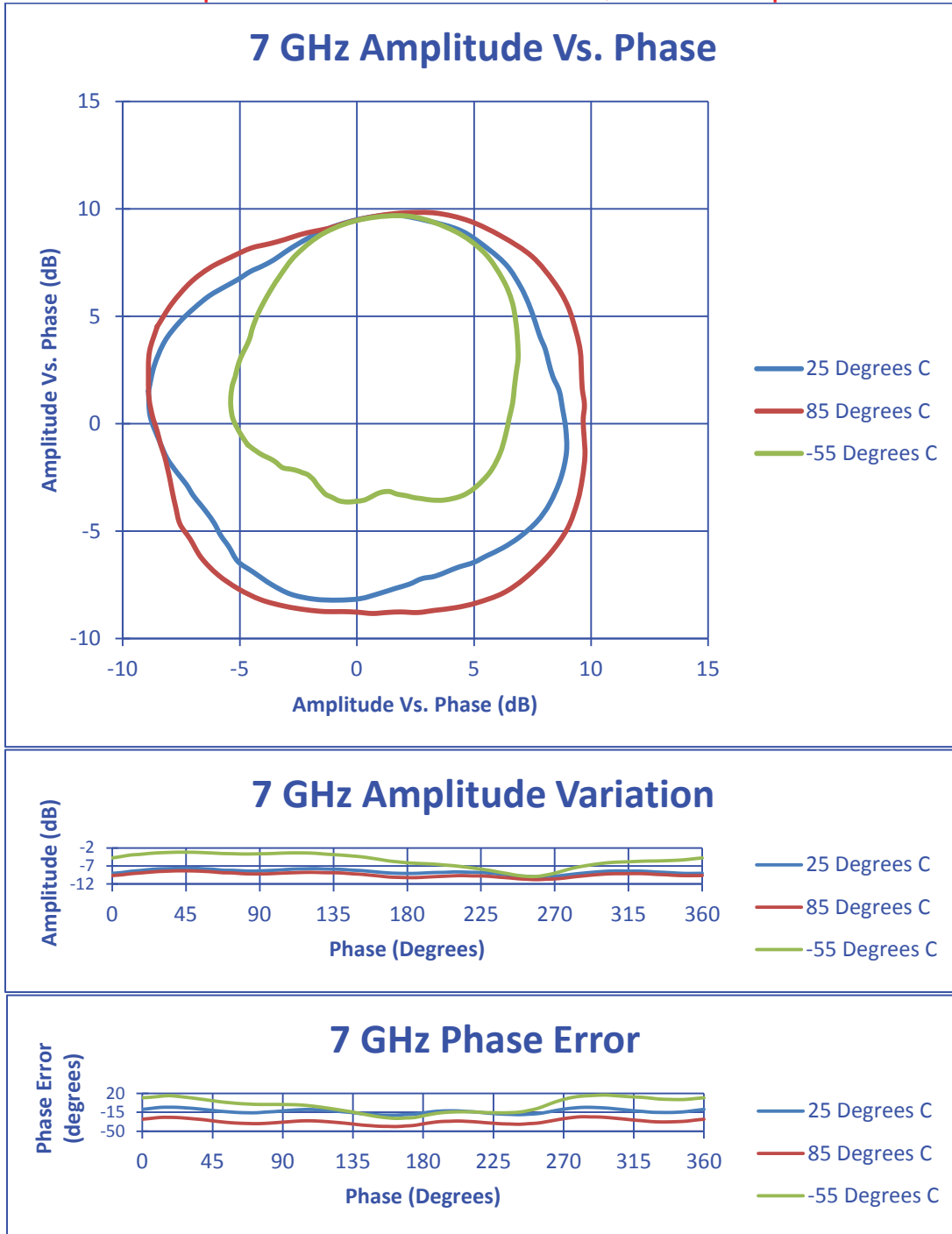
Amplitude and Phase at 6 GHz, +5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

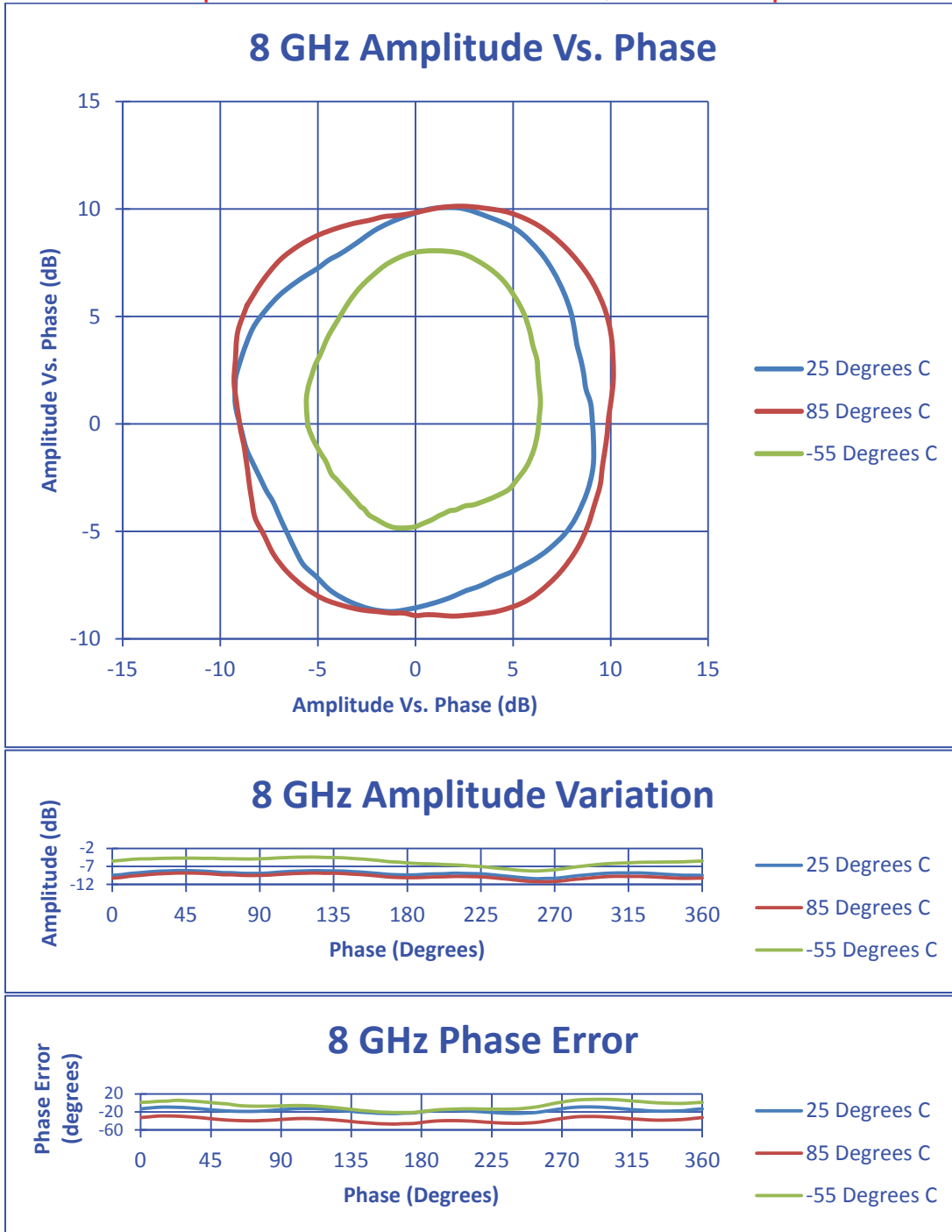
Amplitude and Phase at 7 GHz, +5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

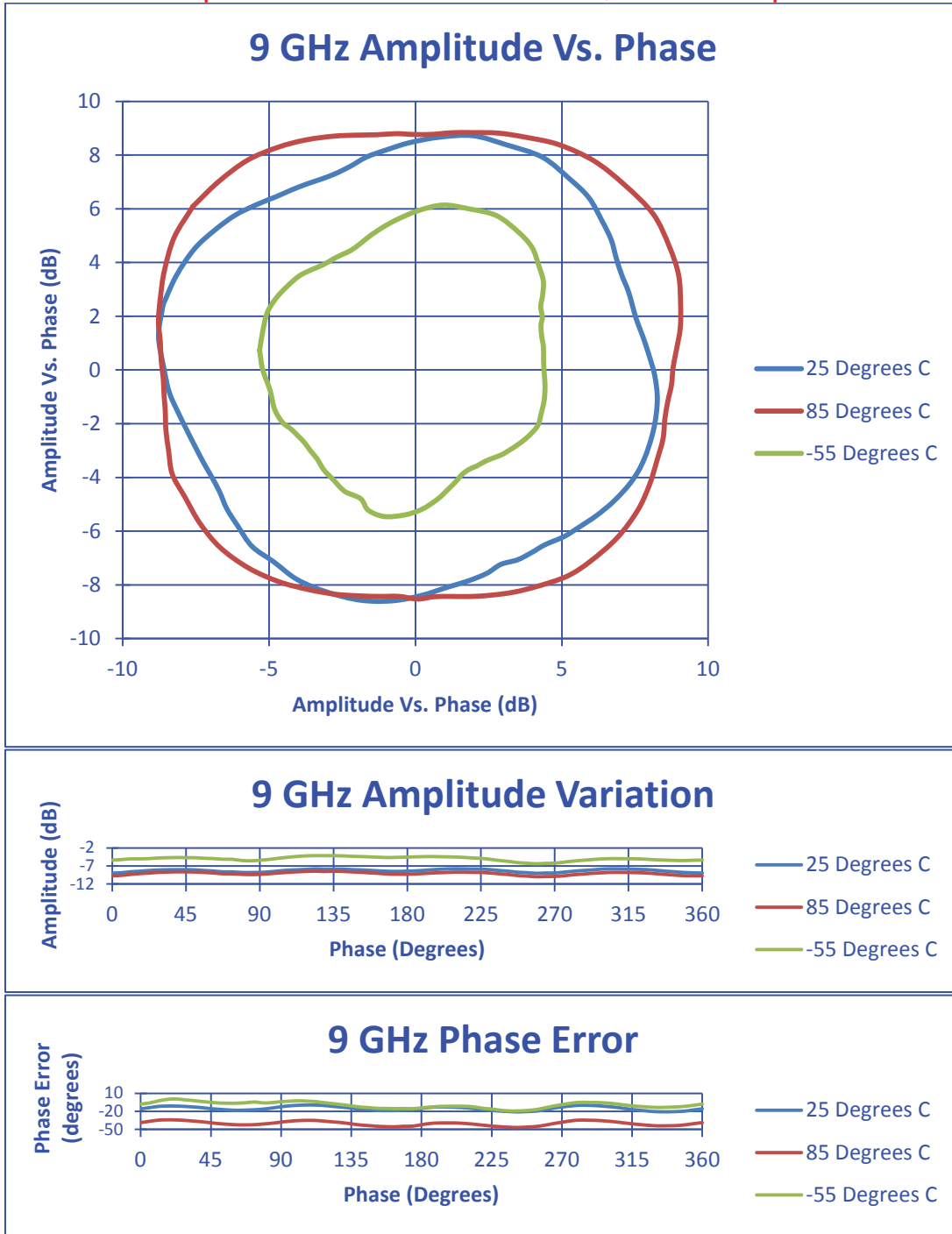
Amplitude and Phase at 8 GHz, +5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

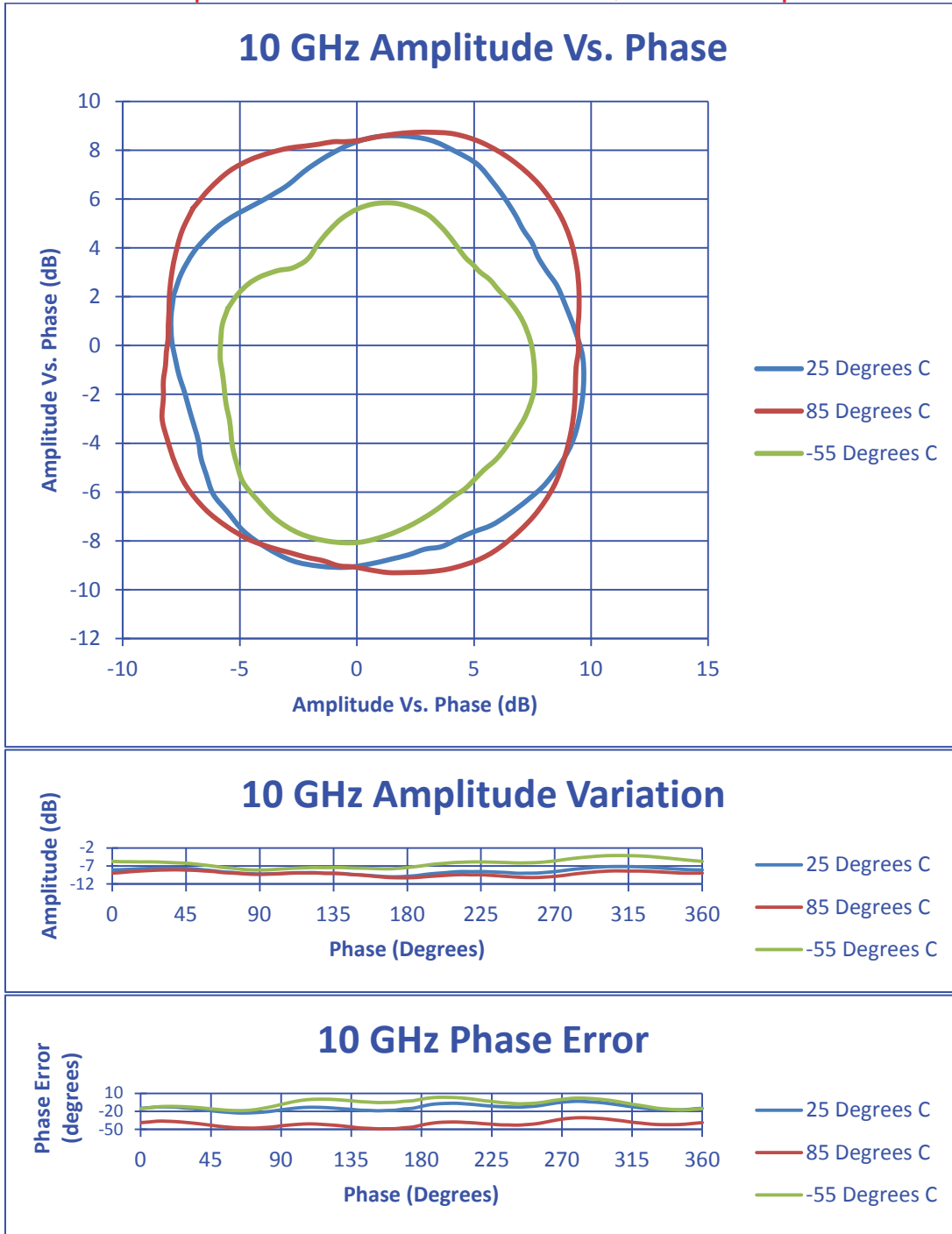
Amplitude and Phase at 9 GHz, +5 dBm Input





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Amplitude and Phase at 10 GHz, +5 dBm Input

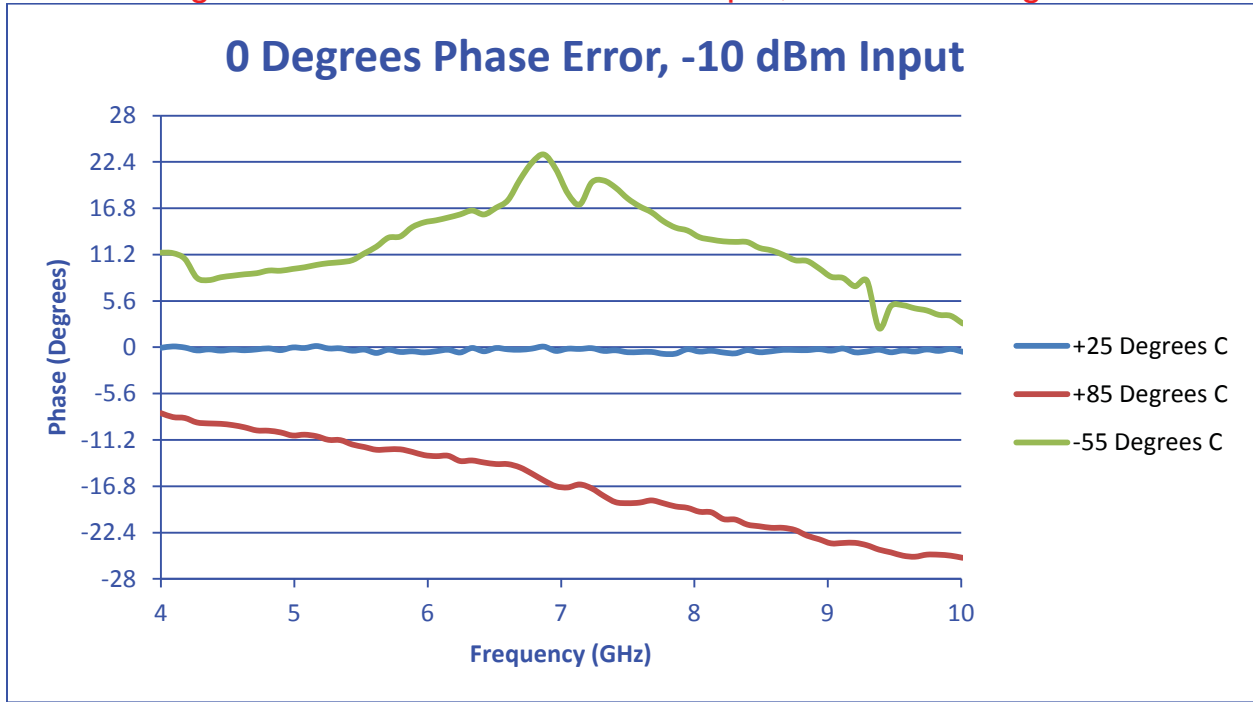


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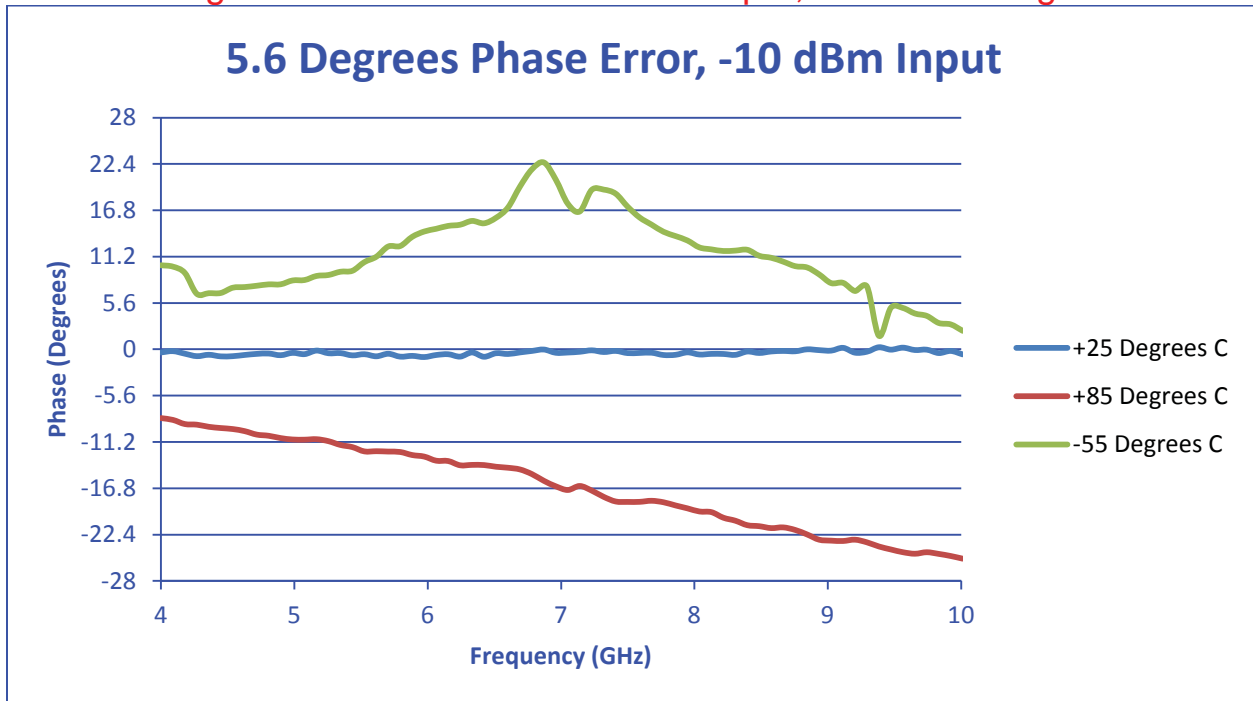


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

0 Degrees Phase Error at -10 dBm Input, -55 to +85 degrees C



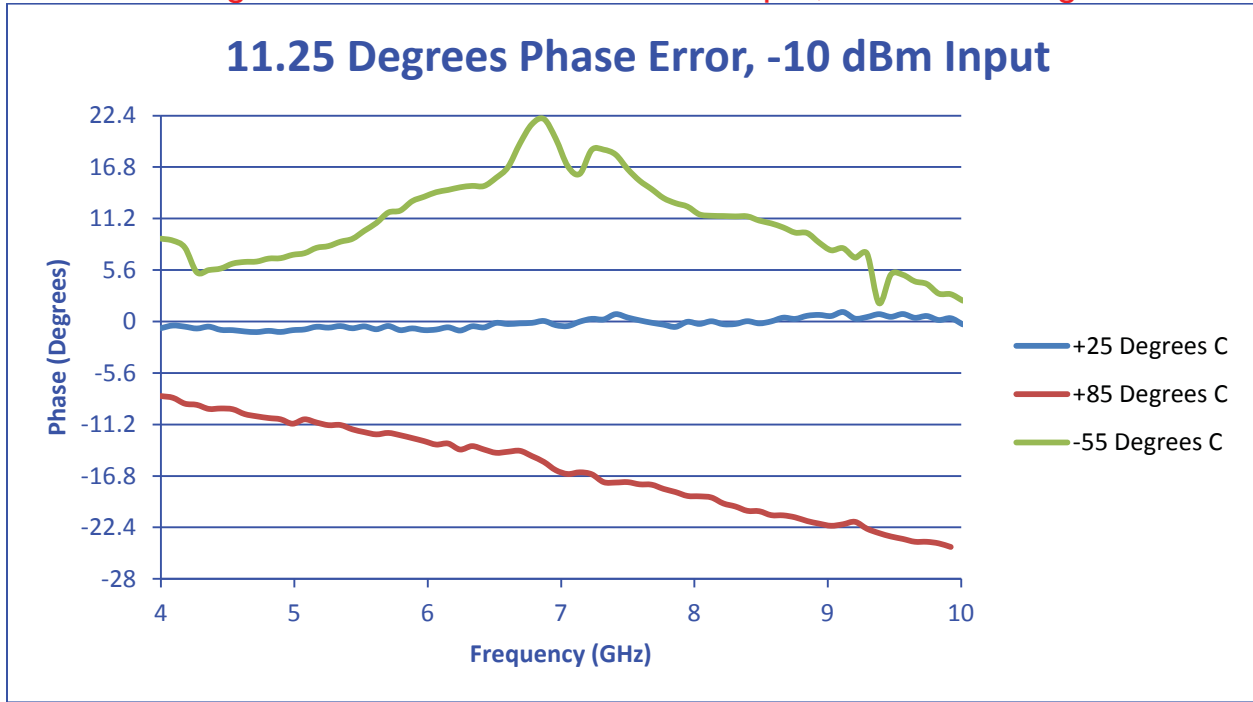
5.6 Degrees Phase Error at -10 dBm Input, -55 to +85 degrees C



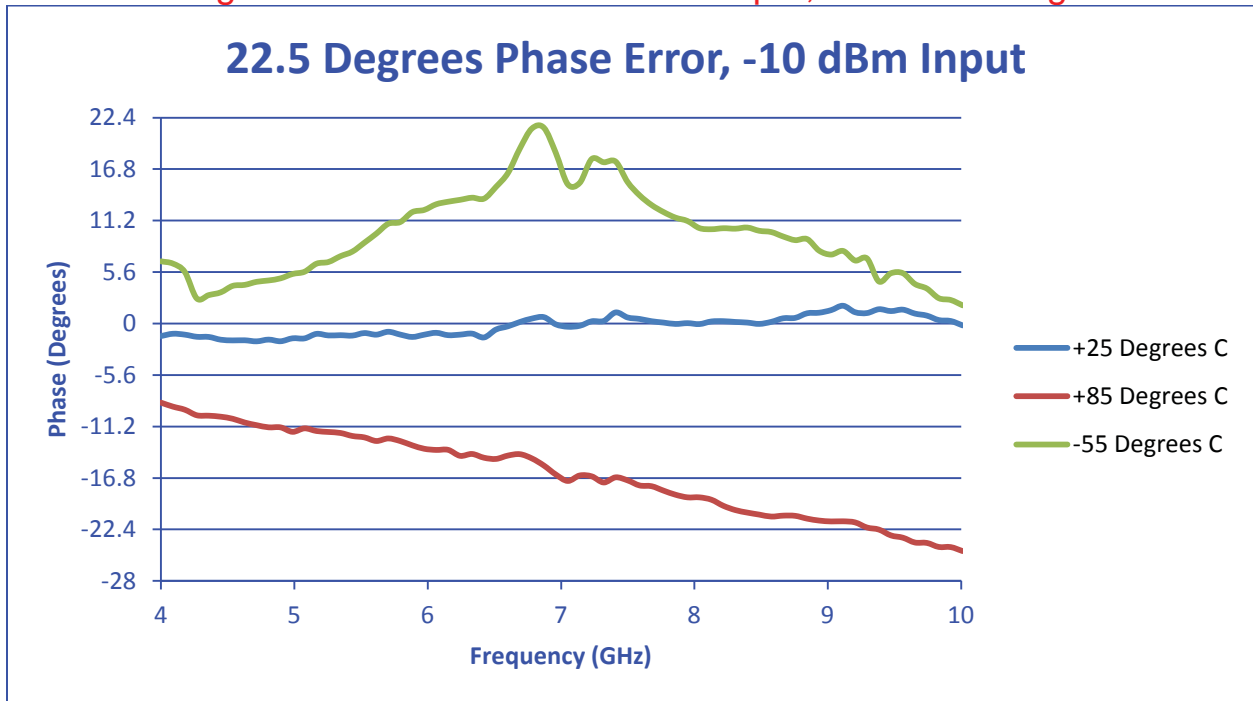


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

11.25 Degrees Phase Error at -10 dBm Input, -55 to +85 degrees C



22.5 Degrees Phase Error at -10 dBm Input, -55 to +85 degrees C

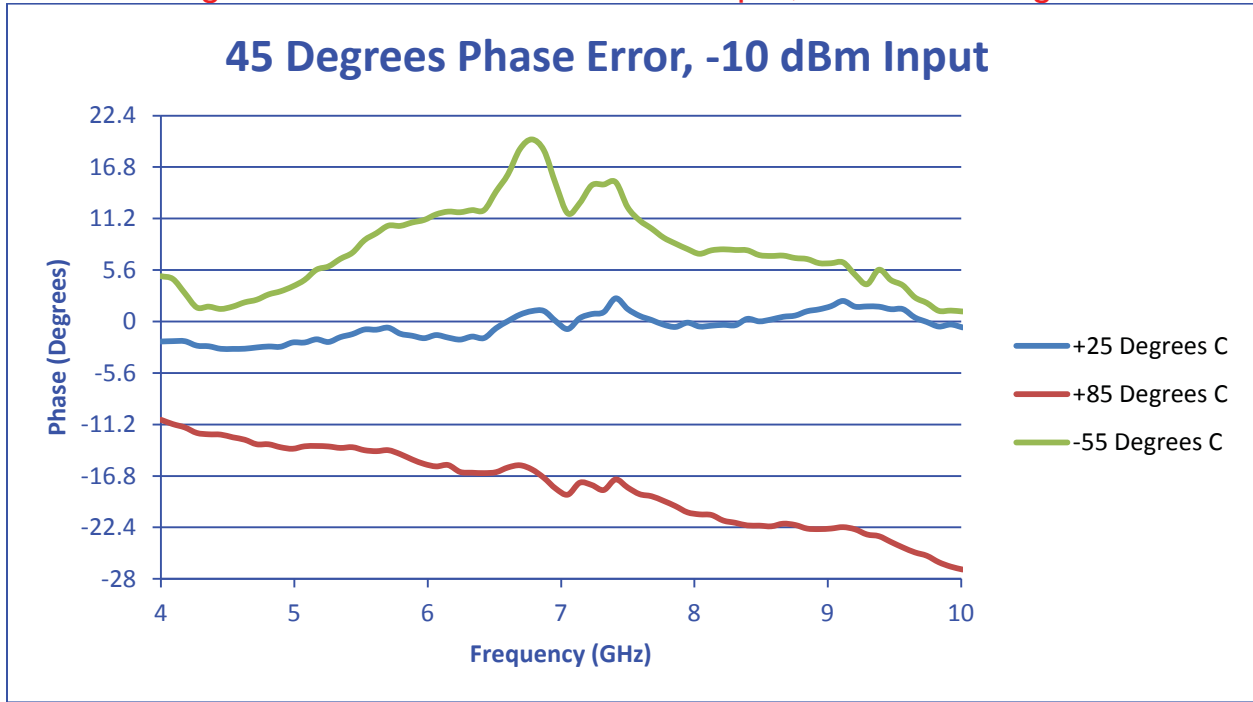


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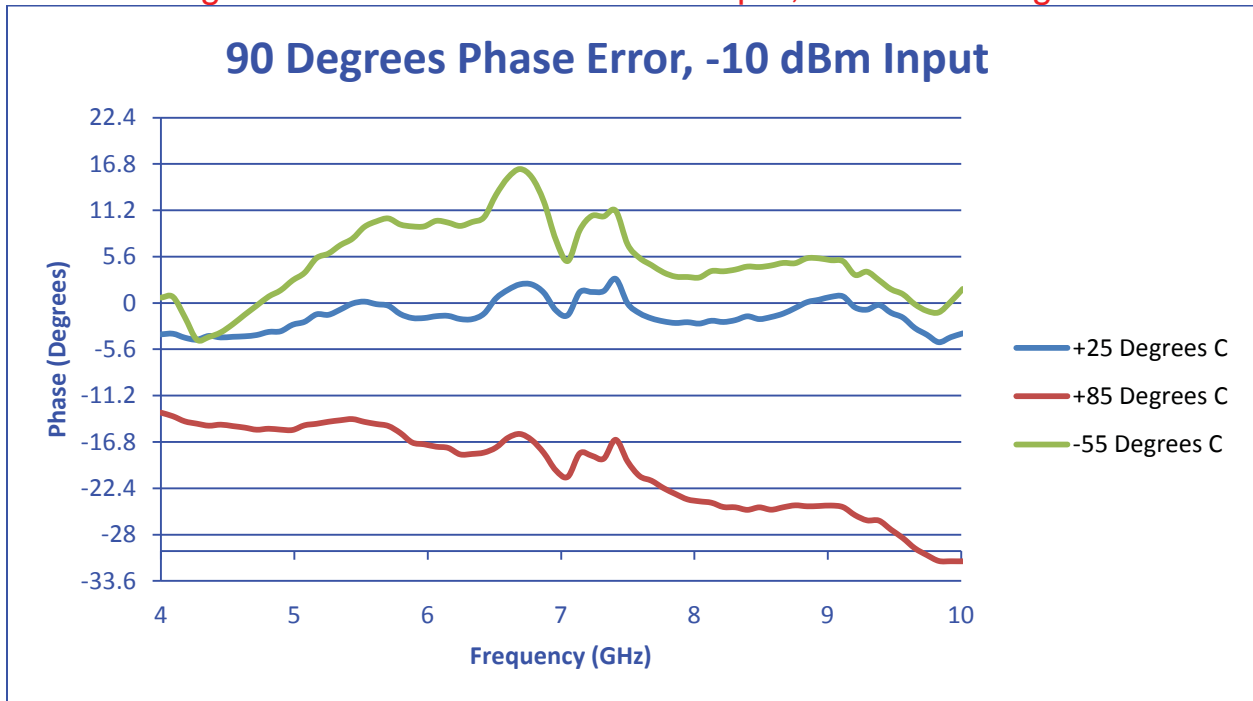


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

45 Degrees Phase Error at -10 dBm Input, -55 to +85 degrees C



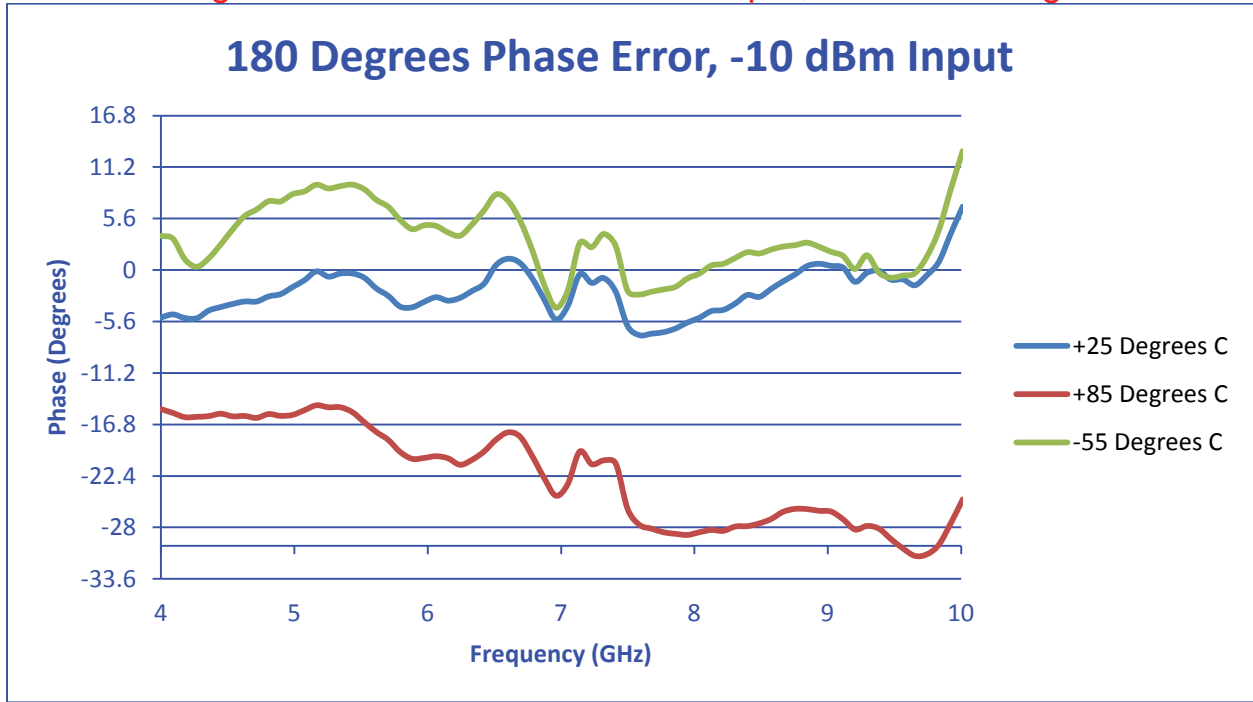
90 Degrees Phase Error at -10 dBm Input, -55 to +85 degrees C



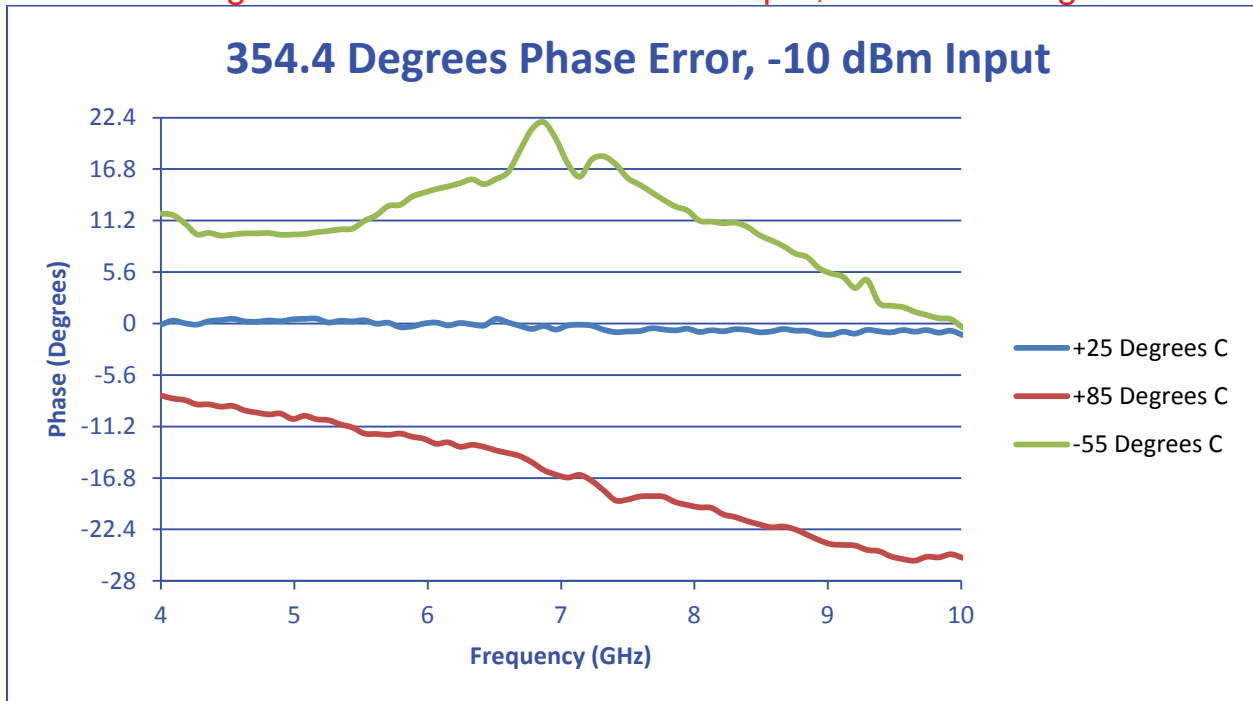


**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

180 Degrees Phase Error at -10 dBm Input, -55 to +85 degrees C



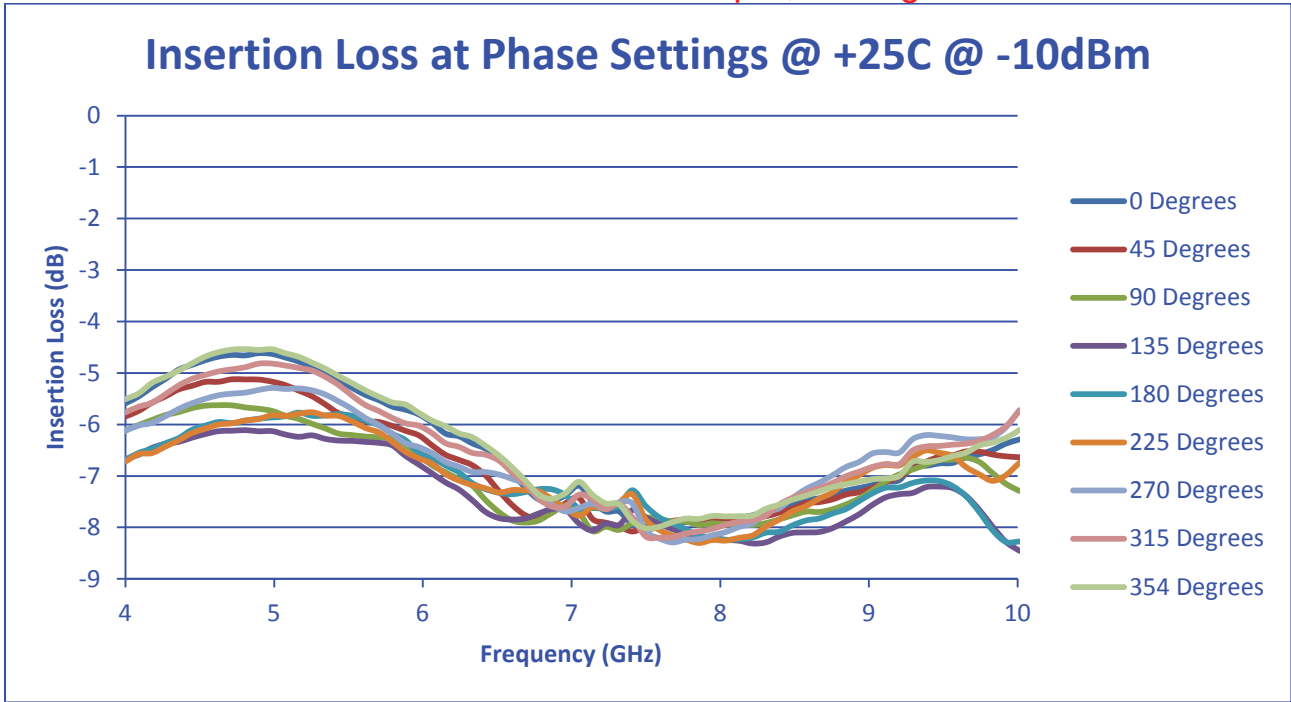
354.4 Degrees Phase Error at -10 dBm Input, -55 to +85 degrees C



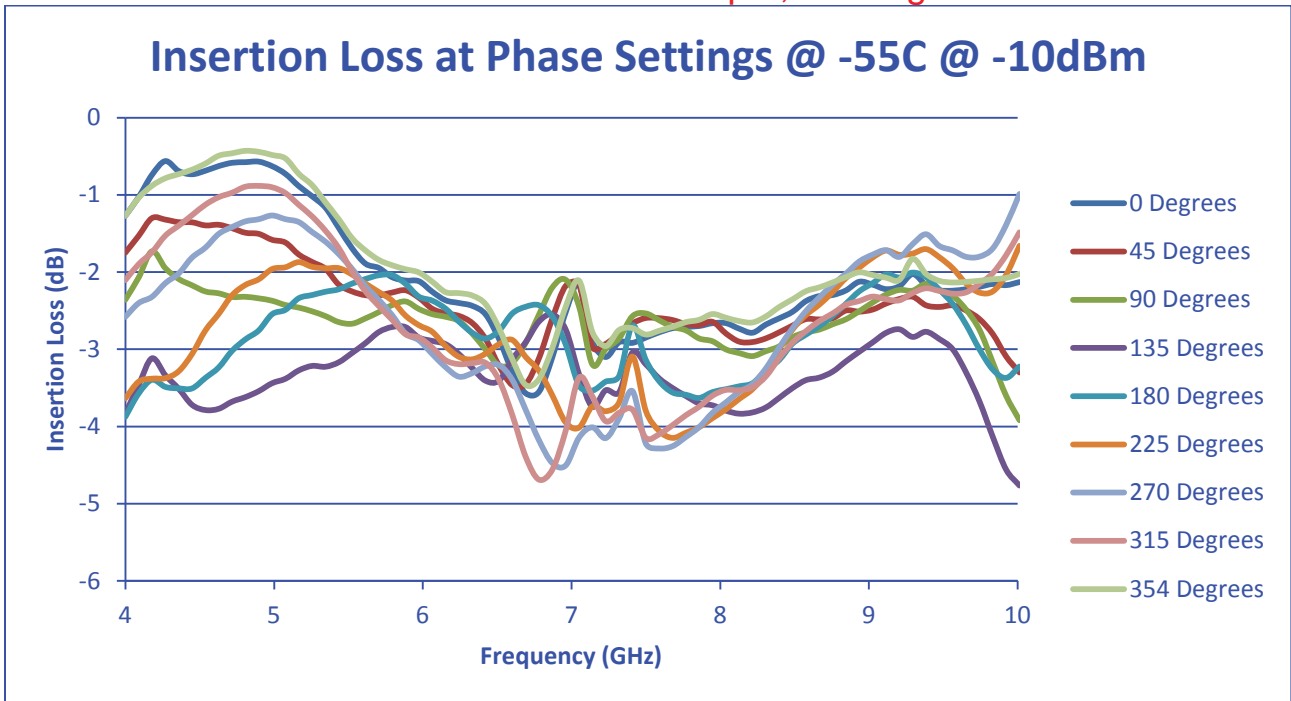


**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

Insertion Loss at -10 dBm Input, 25 degrees C



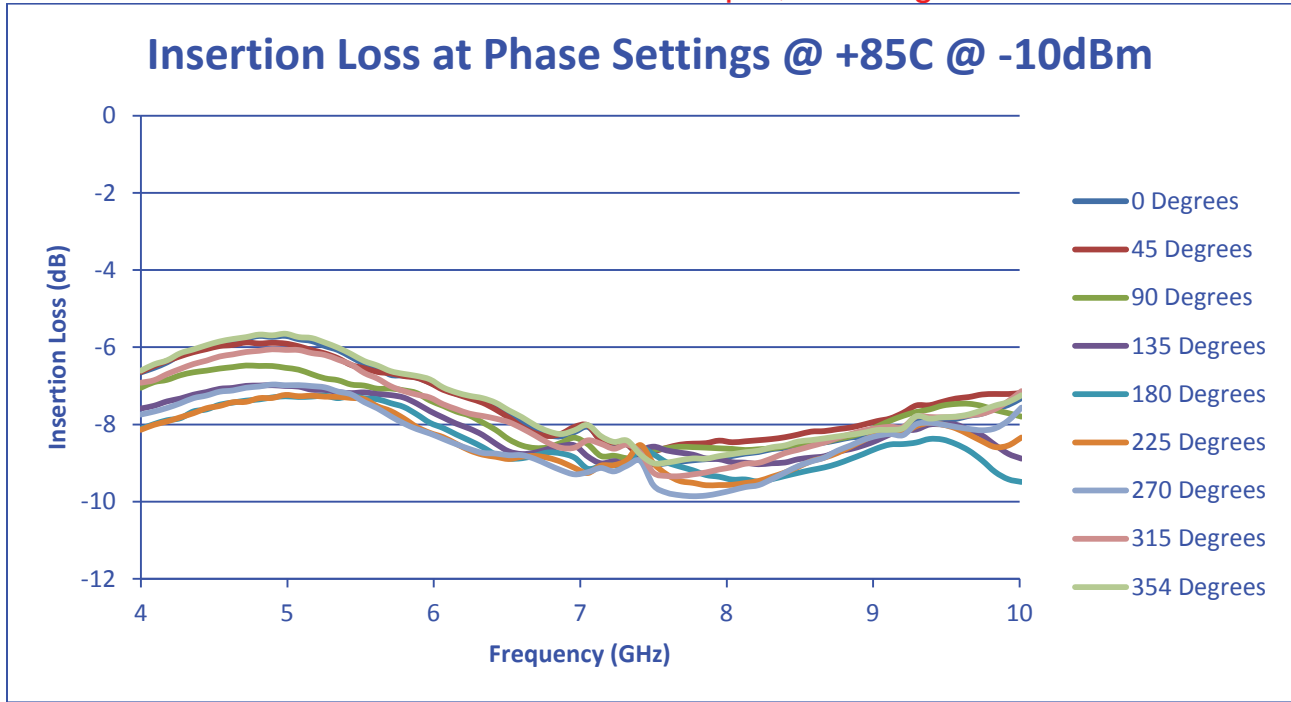
Insertion Loss at -10 dBm Input, -55 degrees C





**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

Insertion Loss at -10 dBm Input, +85 degrees C

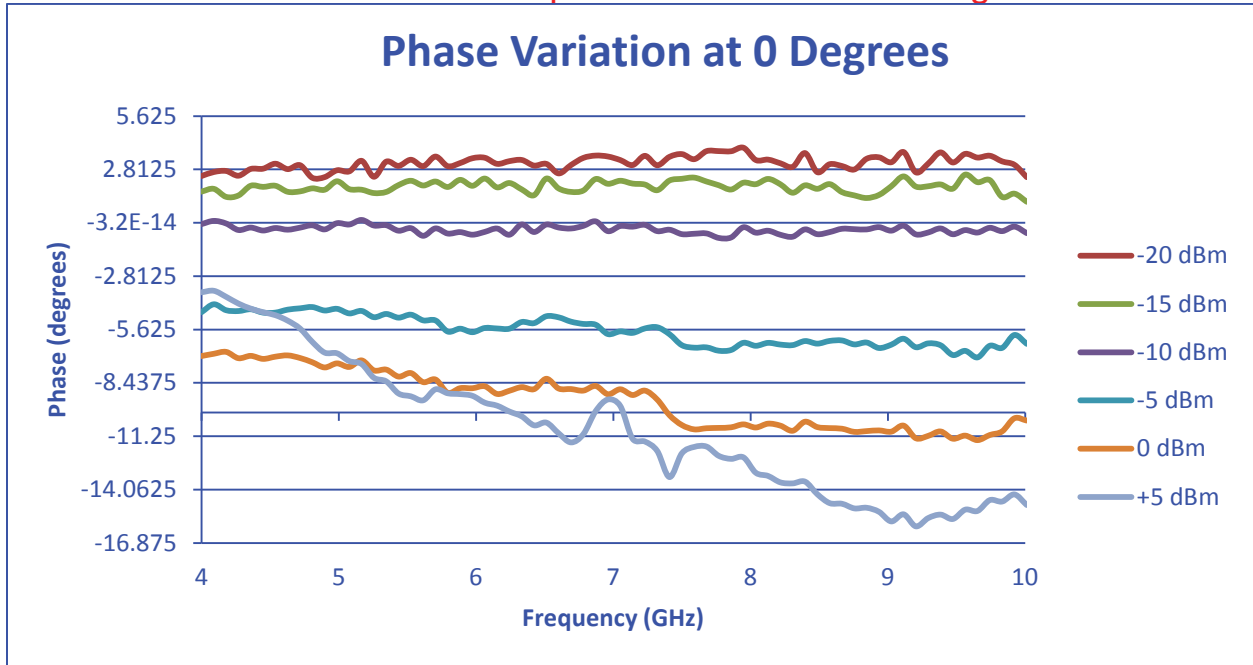




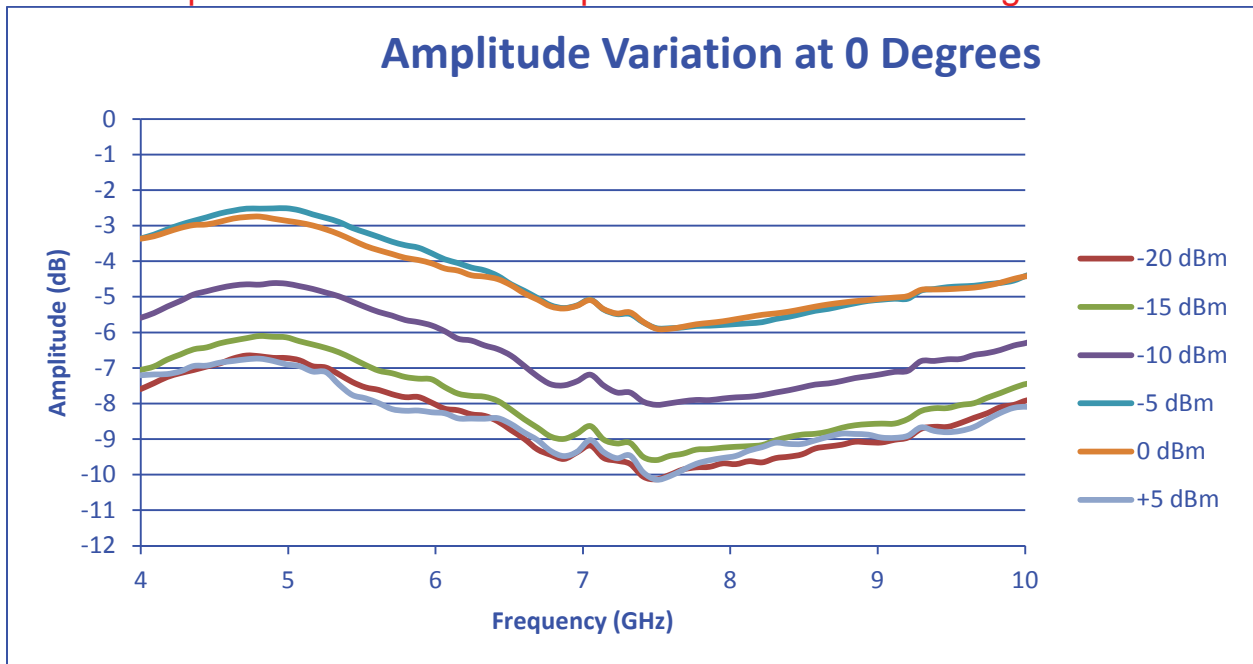
**TYPICAL CHARACTERISTICS
ON
PS-4G10G-8B-SFF**

Phase and Amplitude Variation over Input Power

Phase Variation over Input Power Level @ 25 degrees C



Amplitude Variation over Input Power Level @ 25 degrees C

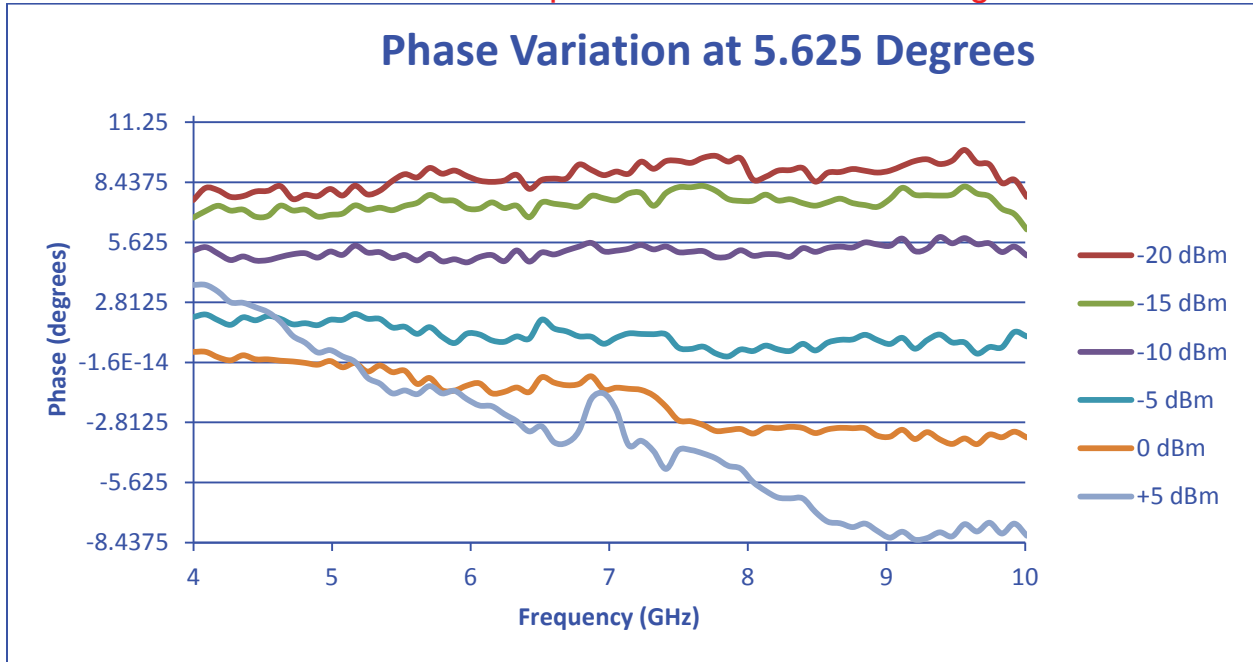


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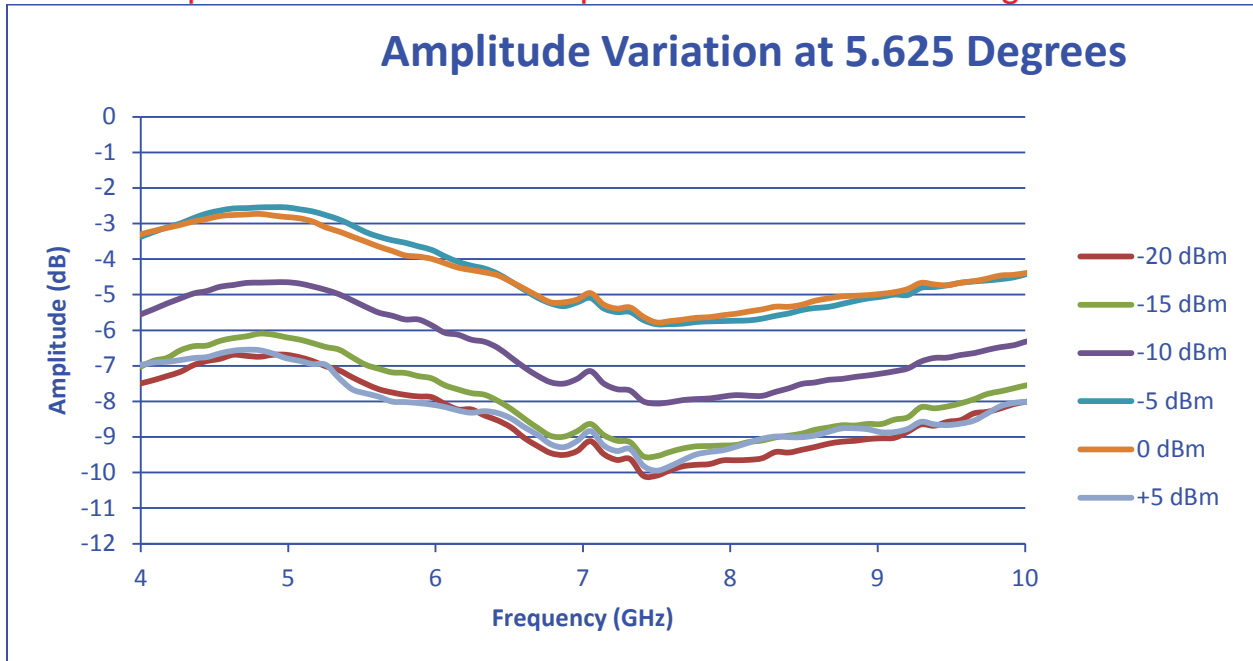


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase Variation over Input Power Level @ 25 degrees C



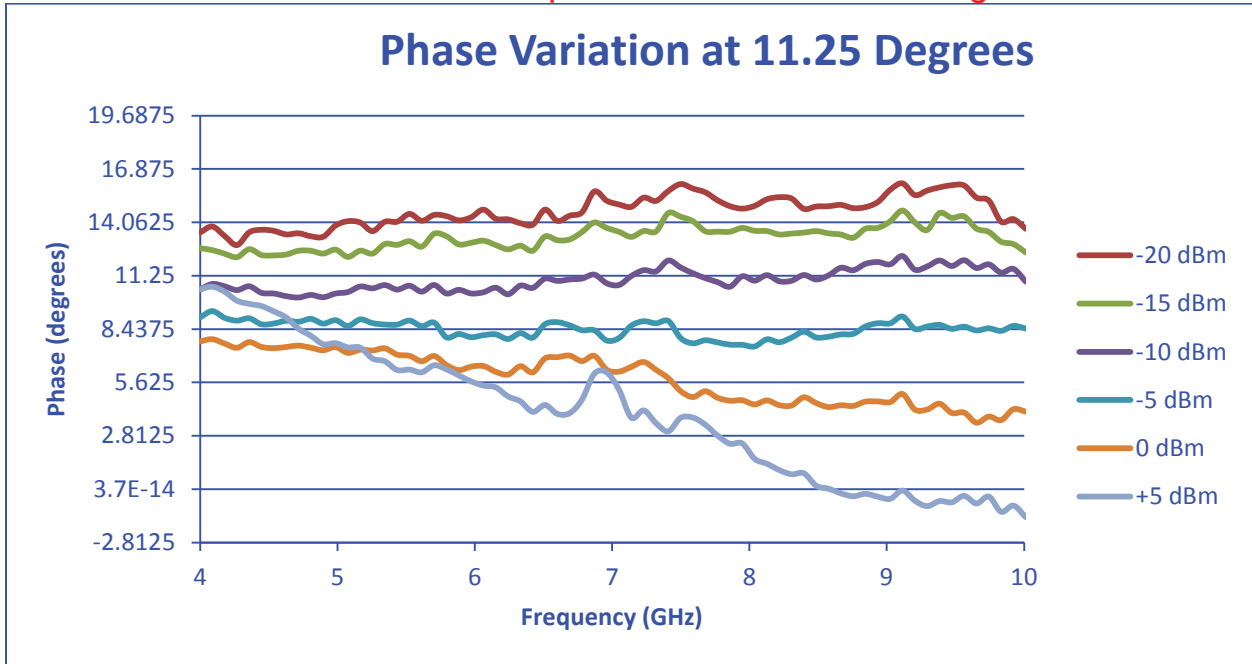
Amplitude Variation over Input Power Level @ 25 degrees C



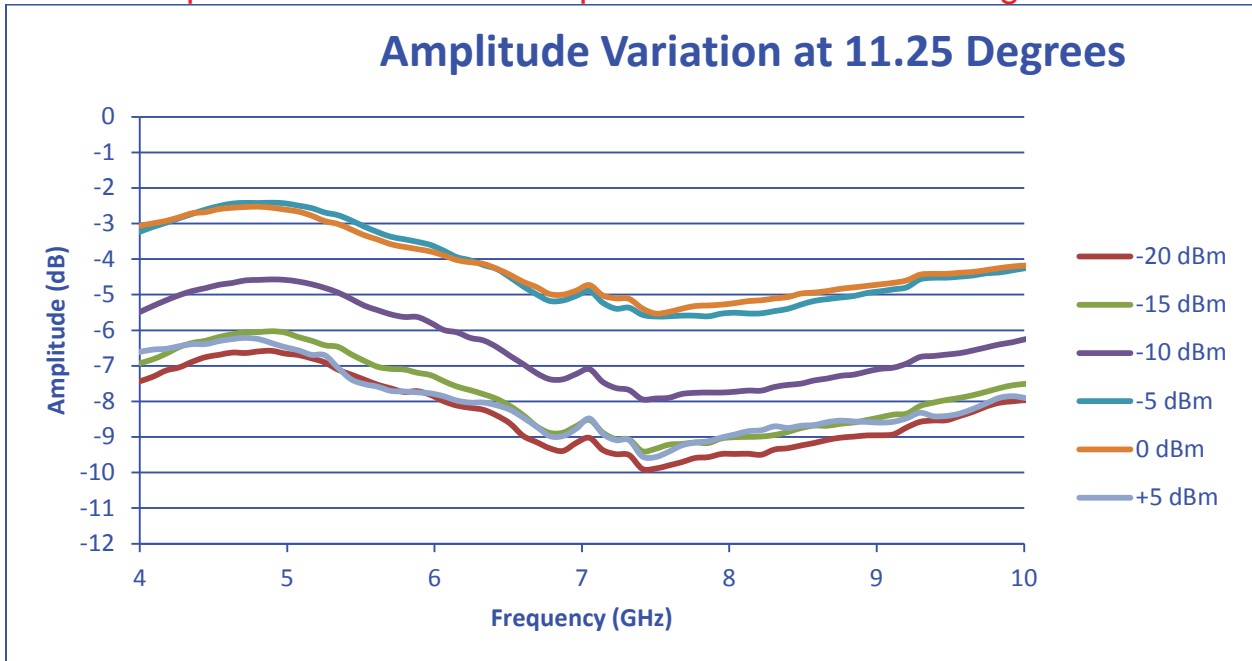


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase Variation over Input Power Level @ 25 degrees C



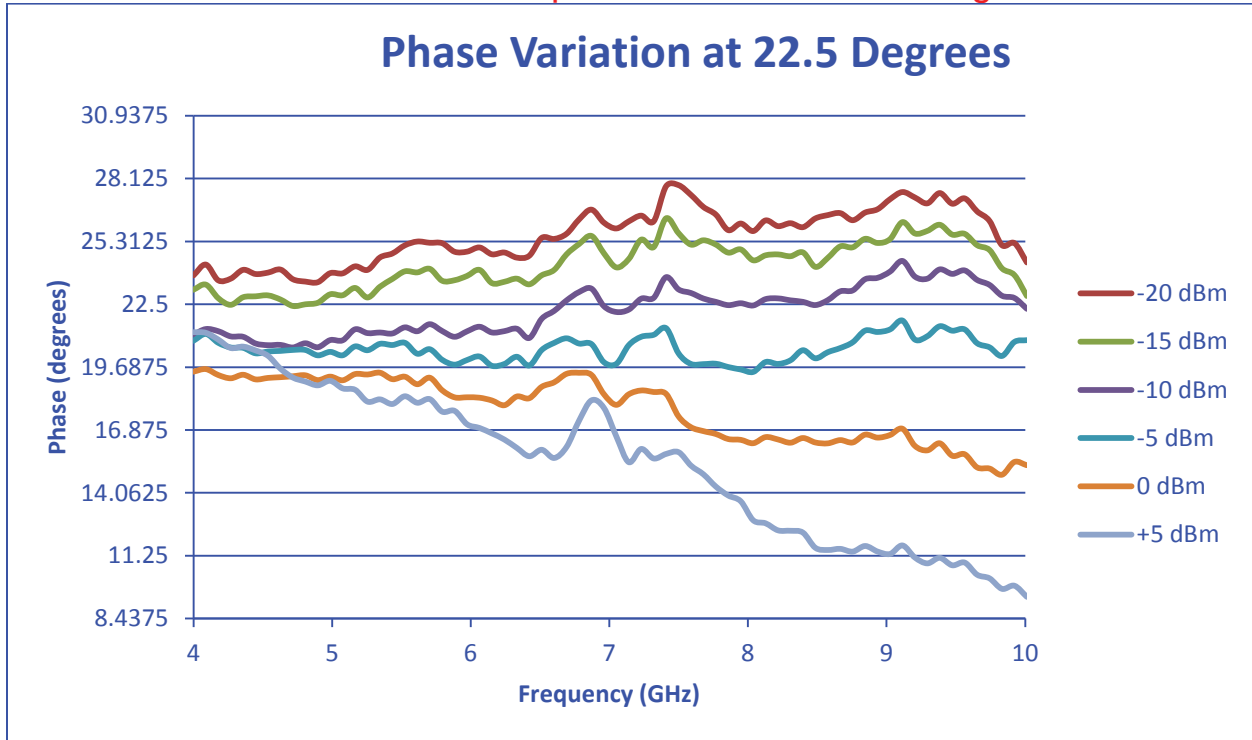
Amplitude Variation over Input Power Level @ 25 degrees C



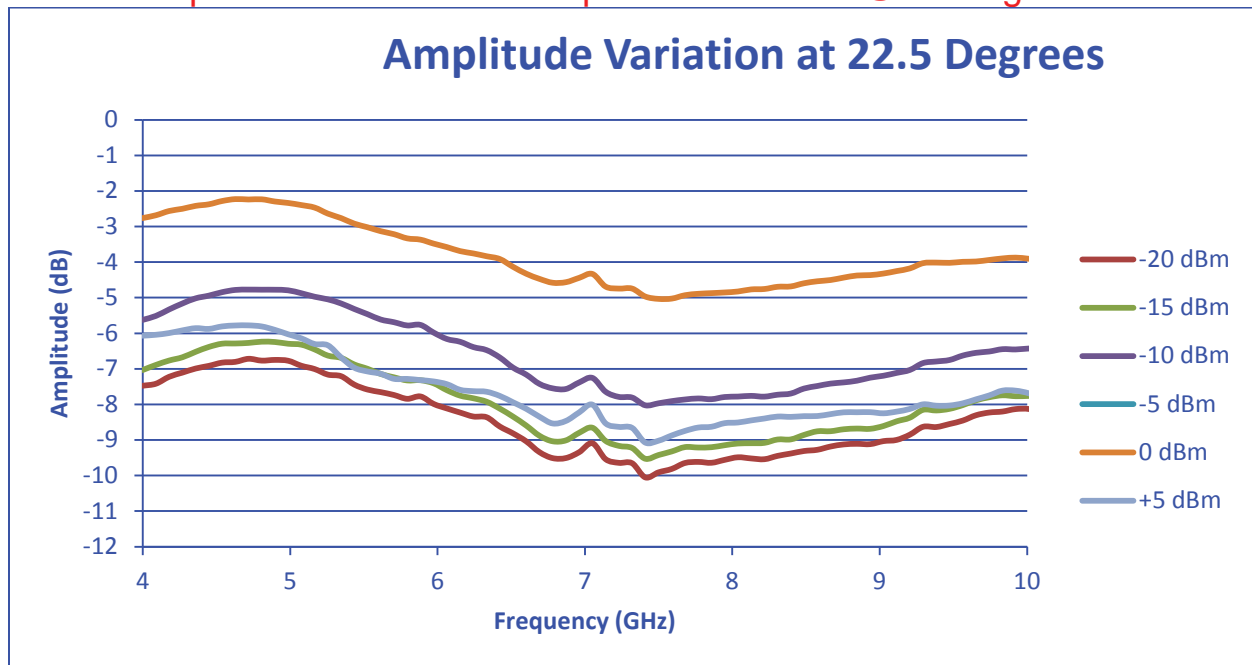


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase Variation over Input Power Level @ 25 degrees C



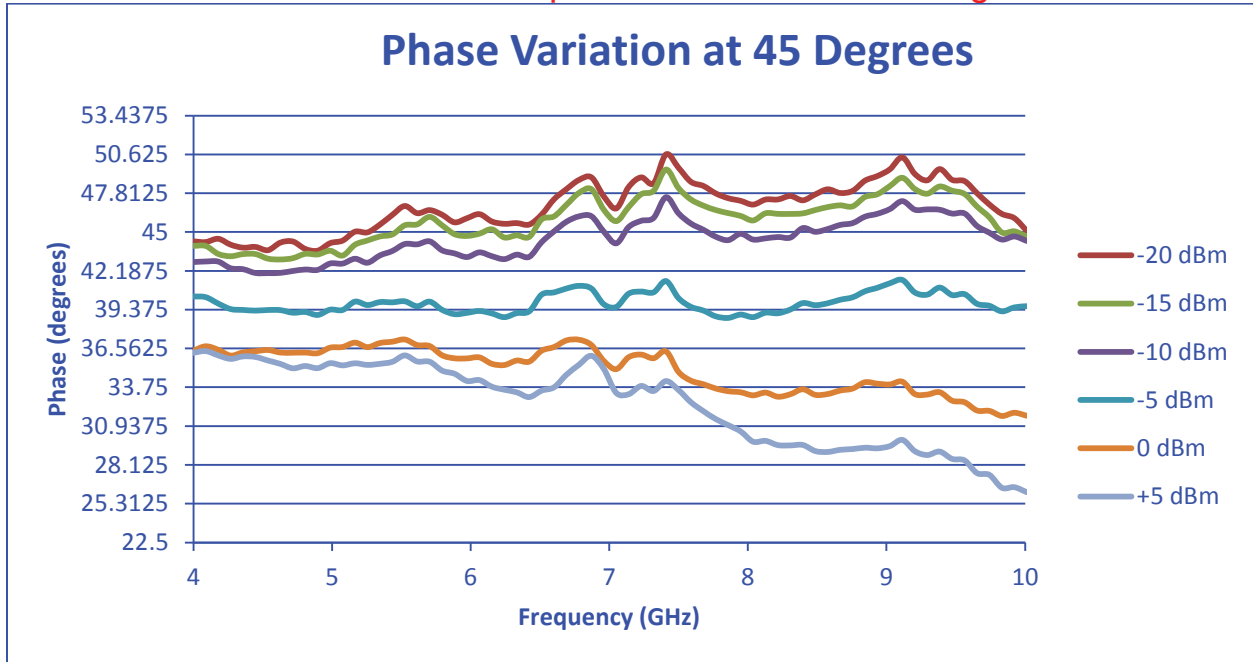
Amplitude Variation over Input Power Level @ 25 degrees C



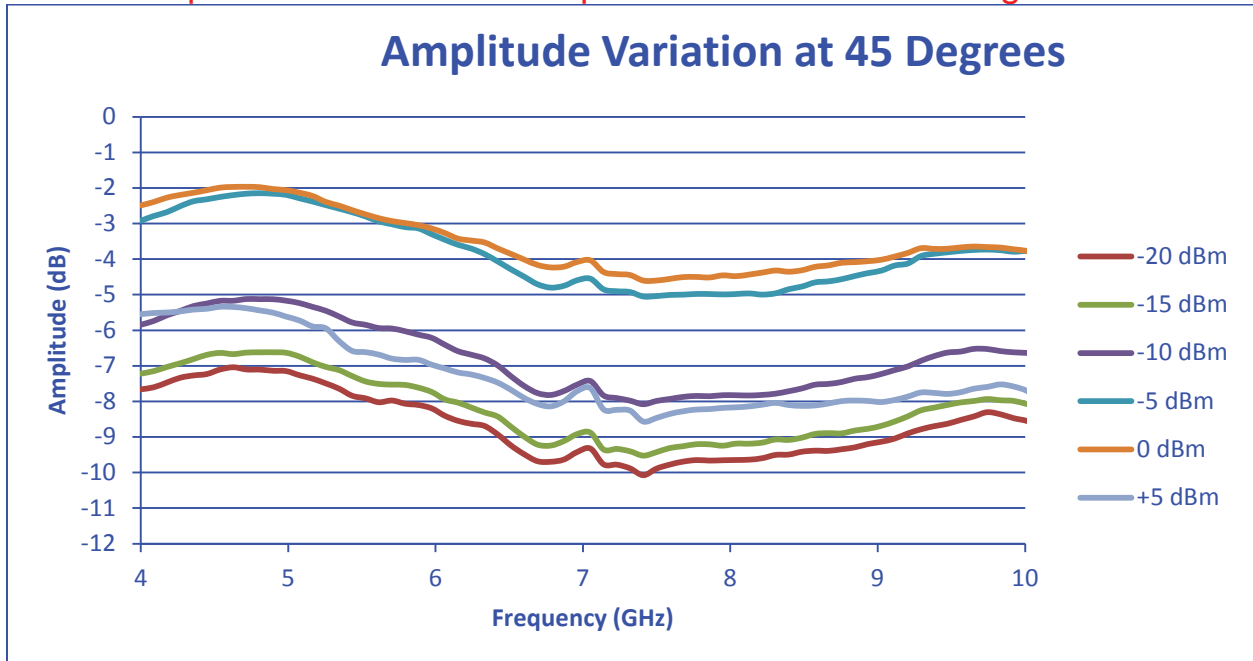


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase Variation over Input Power Level @ 25 degrees C



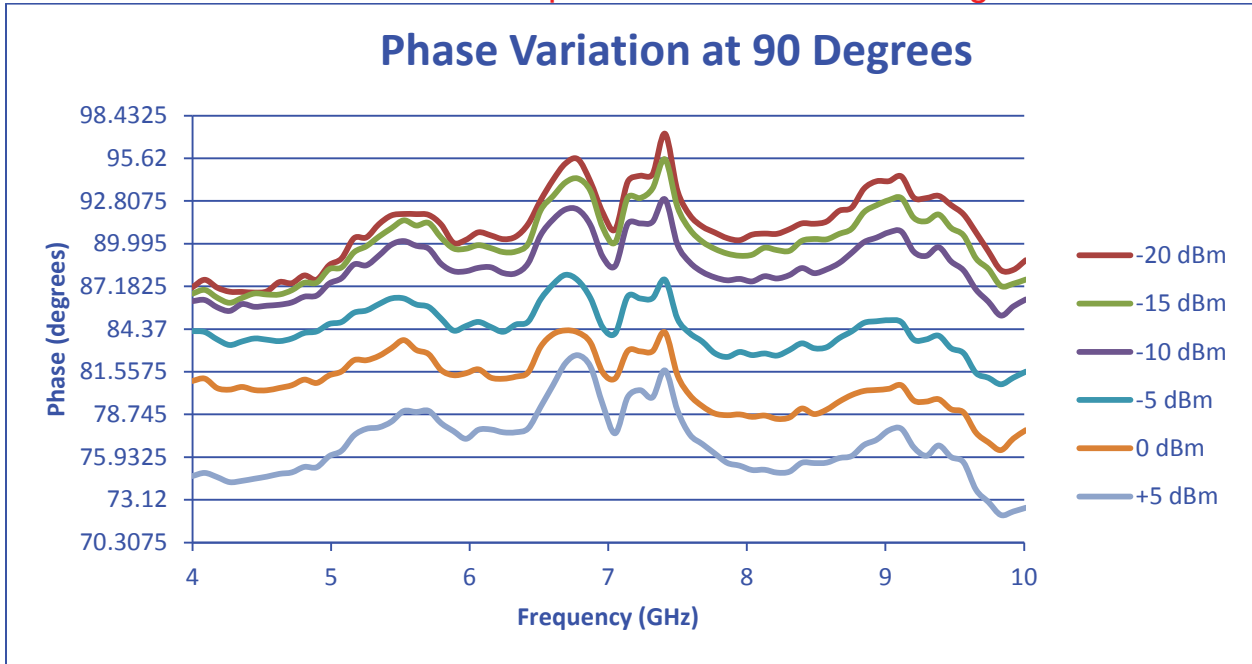
Amplitude Variation over Input Power Level @ 25 degrees C



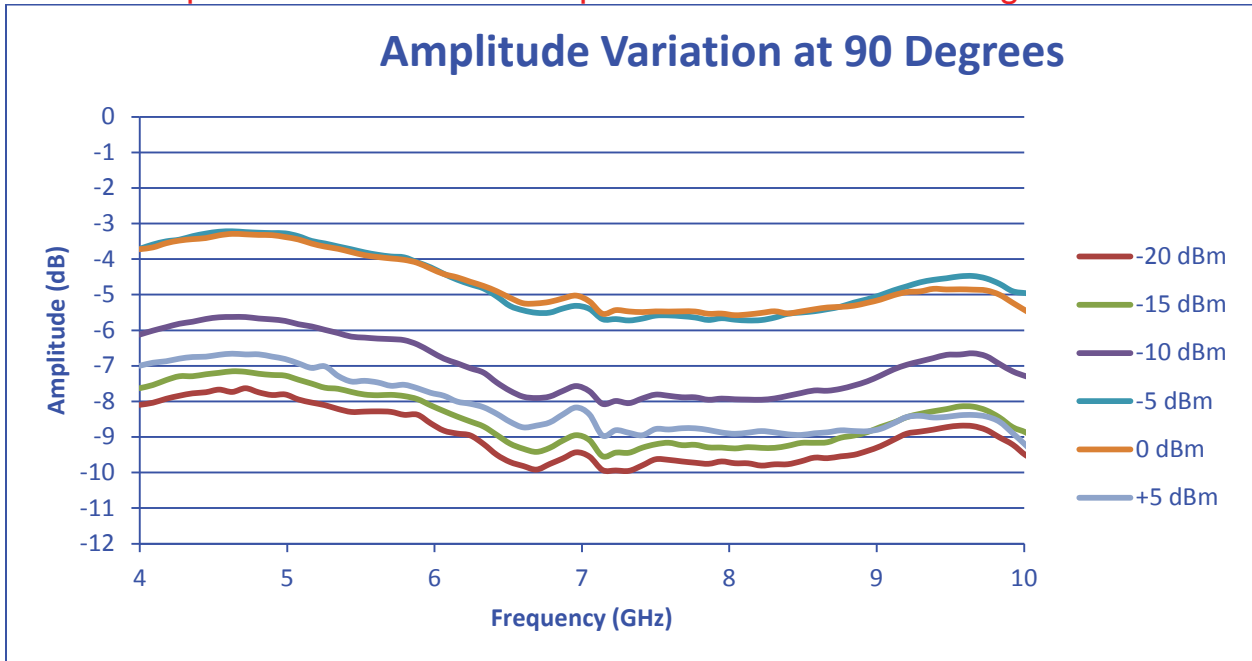


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase Variation over Input Power Level @ 25 degrees C



Amplitude Variation over Input Power Level @ 25 degrees C

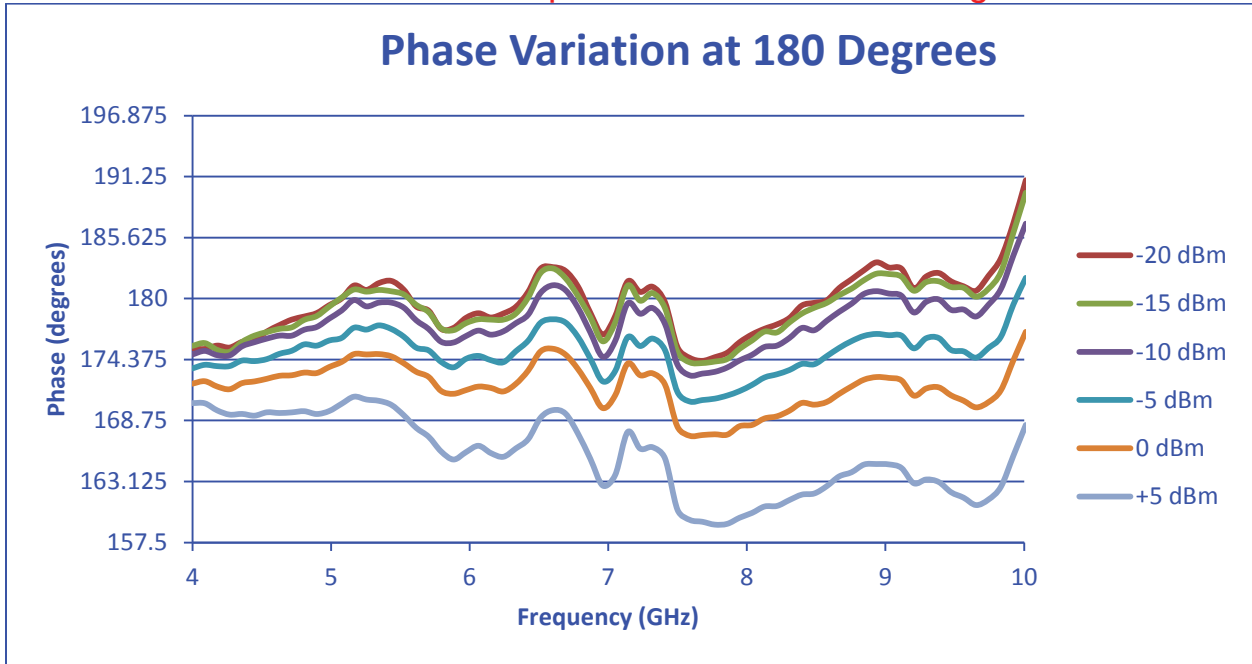


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Email: sales@pmi-rf.com

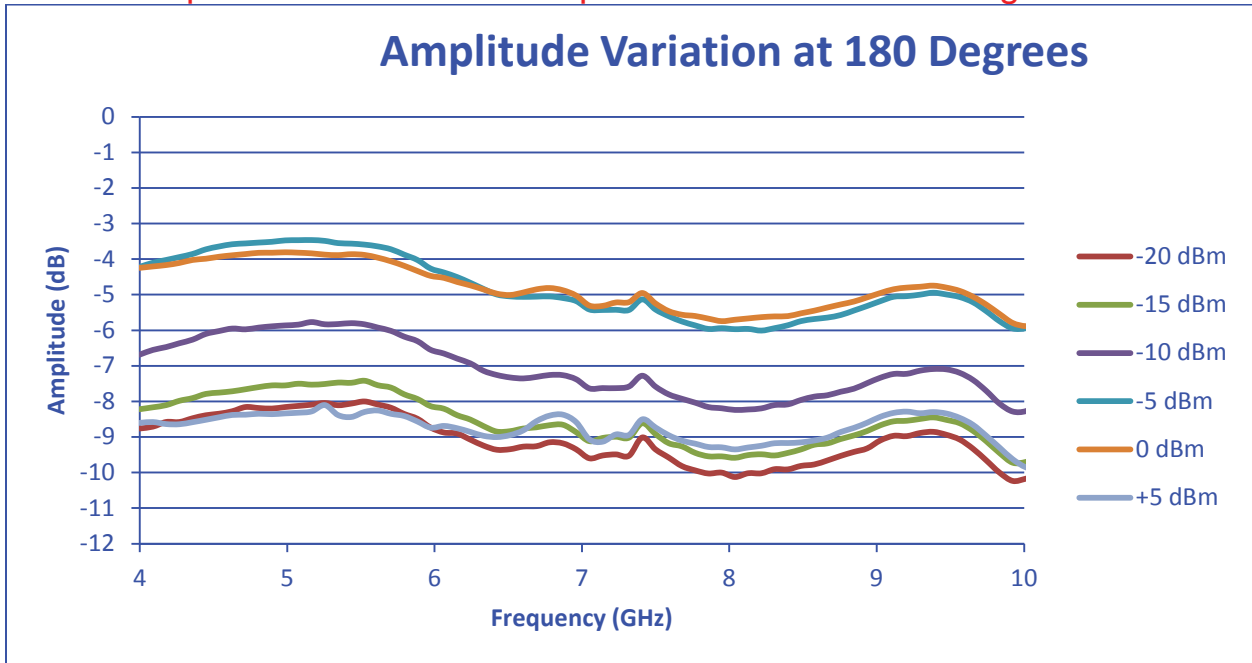


TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase Variation over Input Power Level @ 25 degrees C



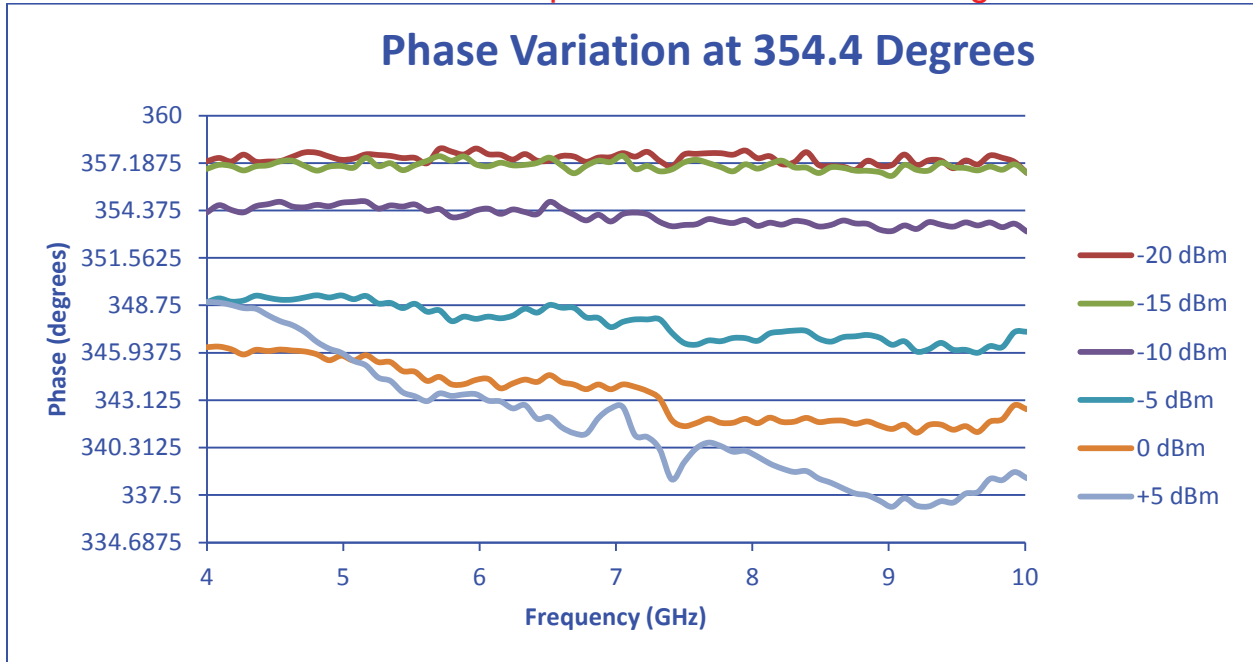
Amplitude Variation over Input Power Level @ 25 degrees C





TYPICAL CHARACTERISTICS ON PS-4G10G-8B-SFF

Phase Variation over Input Power Level @ 25 degrees C



Amplitude Variation over Input Power Level @ 25 degrees C

