



# Summary Data For PS-2G18G-360-12D-TS

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: PS-2G18G-360-12D-TS  
 Serial No: PL41981/2335

Tested By: E. Kretz  
 Temperature: +25°C  
 Date 8/30/2023  
 Drawing No: 27628973 Rev: 1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC	
1	Frequency Range	2.0 GHz to 18.0 GHz	2.0 GHz to 18.0 GHz	PMI QA2	
2	Phase Range	360°	360°		
3	Insertion Loss	18 dB MAX.	17.97 dB		
4	VSWR	2.2:1 MAX.	1.93:1		
5	Amplitude Variation Vs. Phase (PM/AM)	±3.5 dB TYP.	±2.45 dB		
6	Phase vs. Frequency	±15.0° TYP.	±12.70°		
7	Control Logic	12 BIT TTL Compatible.	Verified		
8	Control Slopes	Linear	Verified		
9	Switching Speed	500 nSec MAX.	410 nsec TYP (See Typical Characteristics)		
10	Power Supply	+12 to +15V @ 100 mA -12 to -15V @ 100 mA	+15 @ 63 mA -15 @ 76 mA		PMI QA2

\*Measured at 0 dBm Input Power

QA Signature: 

PMI  
QA2

Date: 8/31/2023



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## Phase State Legend

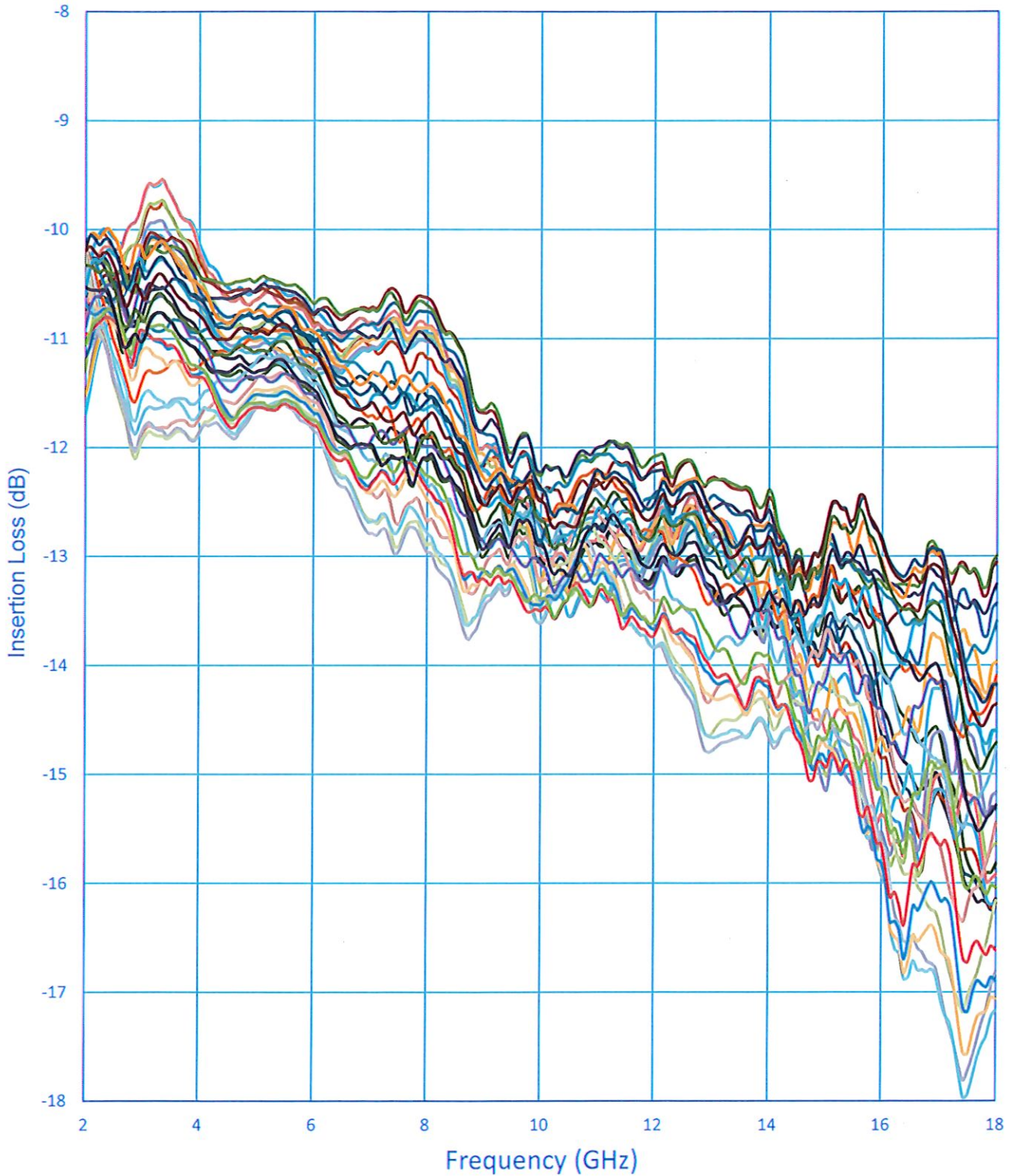
Phase 0 (0 °)	Phase 1 (11.25 °)	Phase 2 (22.5 °)	Phase 3 (33.75 °)
Phase 4 (45 °)	Phase 5 (56.25 °)	Phase 6 (67.5 °)	Phase 7 (78.75 °)
Phase 8 (90 °)	Phase 9 (101.25 °)	Phase 10 (112.5 °)	Phase 11 (123.75 °)
Phase 12 (135 °)	Phase 13 (146.25 °)	Phase 14 (157.5 °)	Phase 15 (168.75 °)
Phase 16 (180 °)	Phase 17 (191.25 °)	Phase 18 (202.5 °)	Phase 19 (213.75 °)
Phase 20 (225 °)	Phase 21 (236.25 °)	Phase 22 (247.5 °)	Phase 23 (258.75 °)
Phase 24 (270 °)	Phase 25 (281.25 °)	Phase 26 (292.5 °)	Phase 27 (303.75 °)
Phase 28 (315 °)	Phase 29 (326.25 °)	Phase 30 (337.5 °)	Phase 31 (348.75 °)



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**Insertion Loss Vs. Frequency**



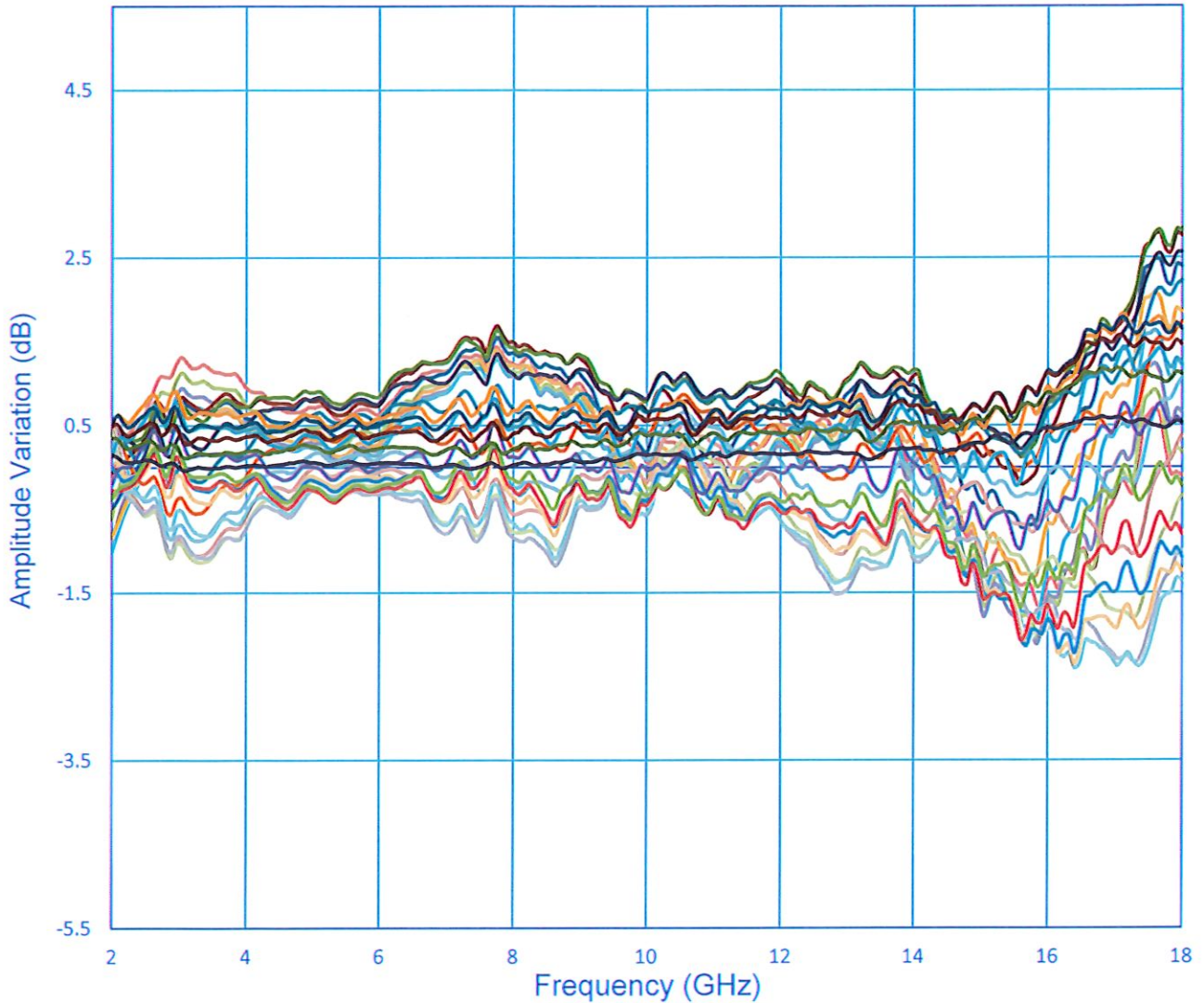




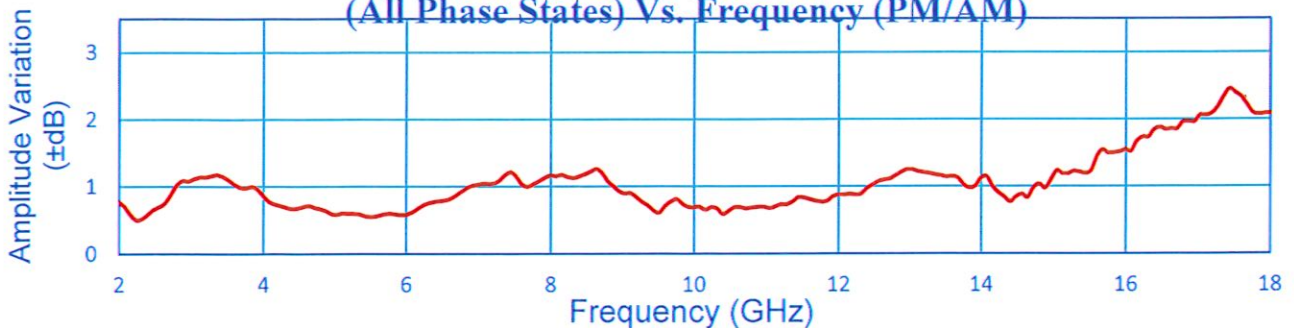
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**Amplitude Vs. Frequency  
(PM/AM)**



**Maximum Amplitude Variation From Center  
(All Phase States) Vs. Frequency (PM/AM)**

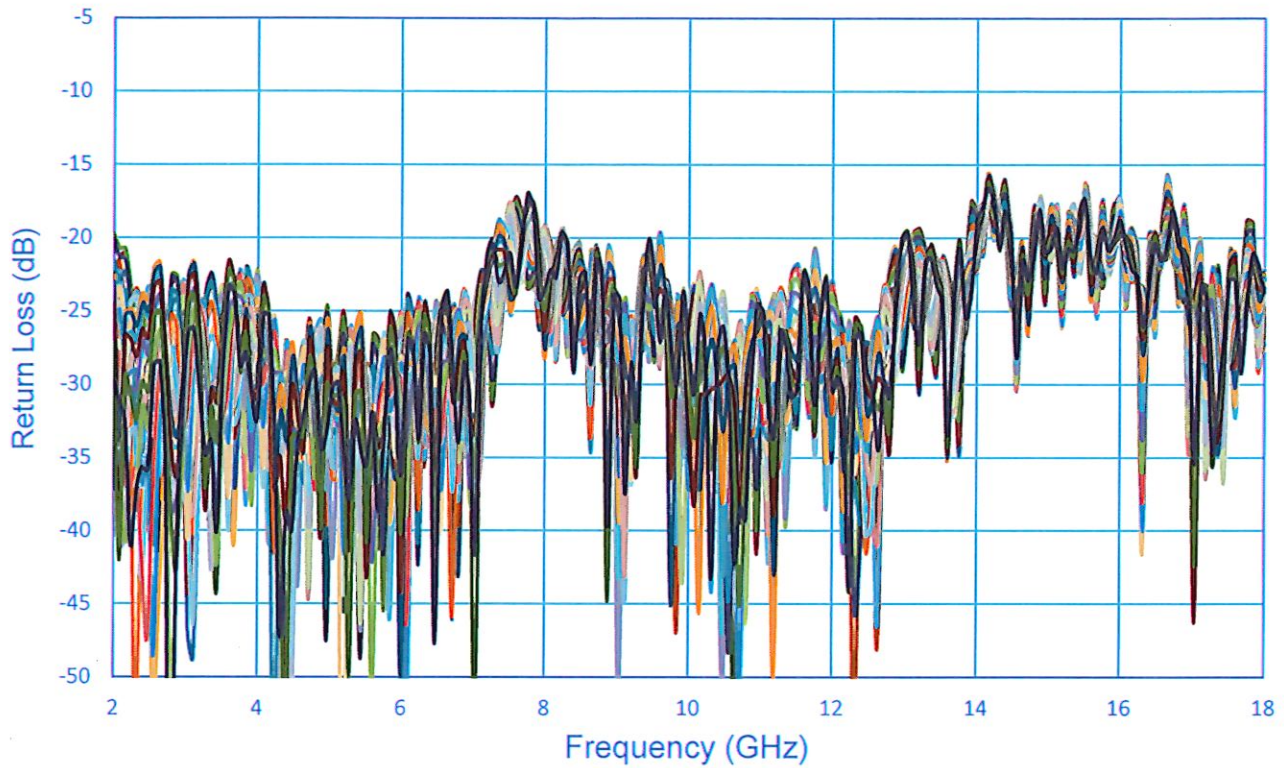




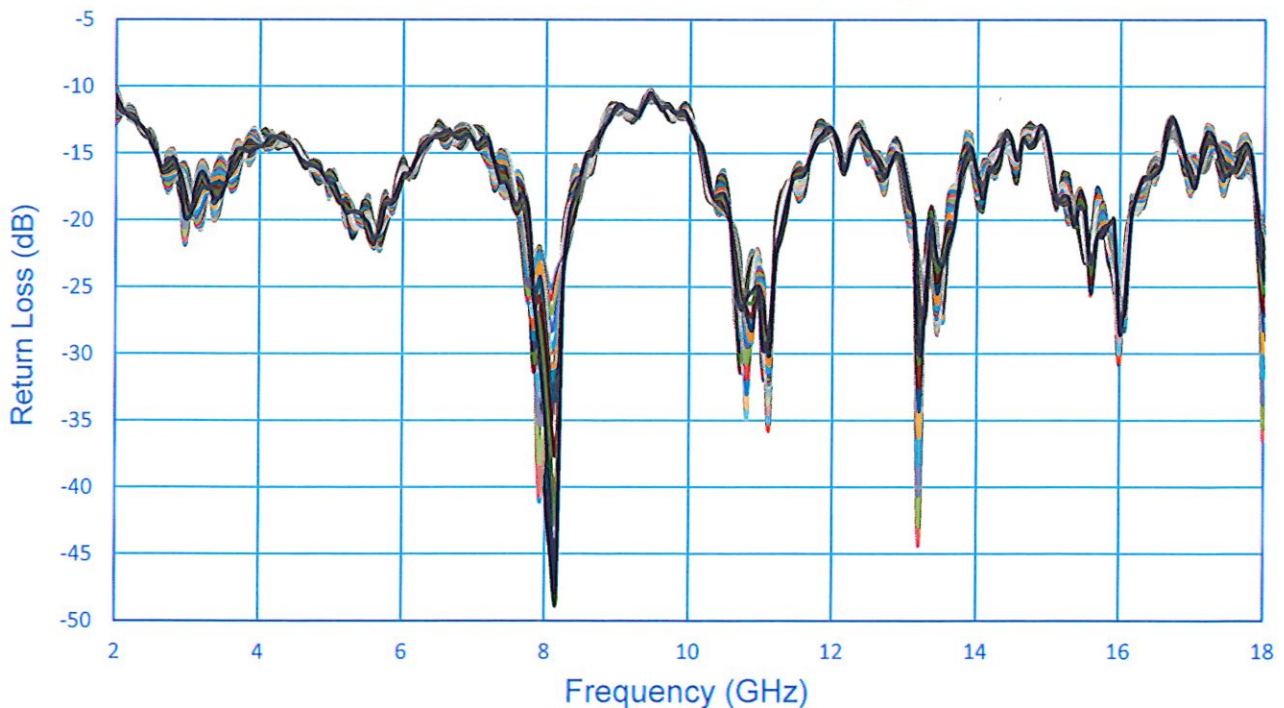
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### Input Return Loss Vs. Frequency



### Output Return Loss Vs. Frequency



7309-A Grove Road Frederick, MD 21704 USA  
Phone: (301)662-5019 Fax: (301)662-1731  
Website: [www.pmi-rf.com](http://www.pmi-rf.com) Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)

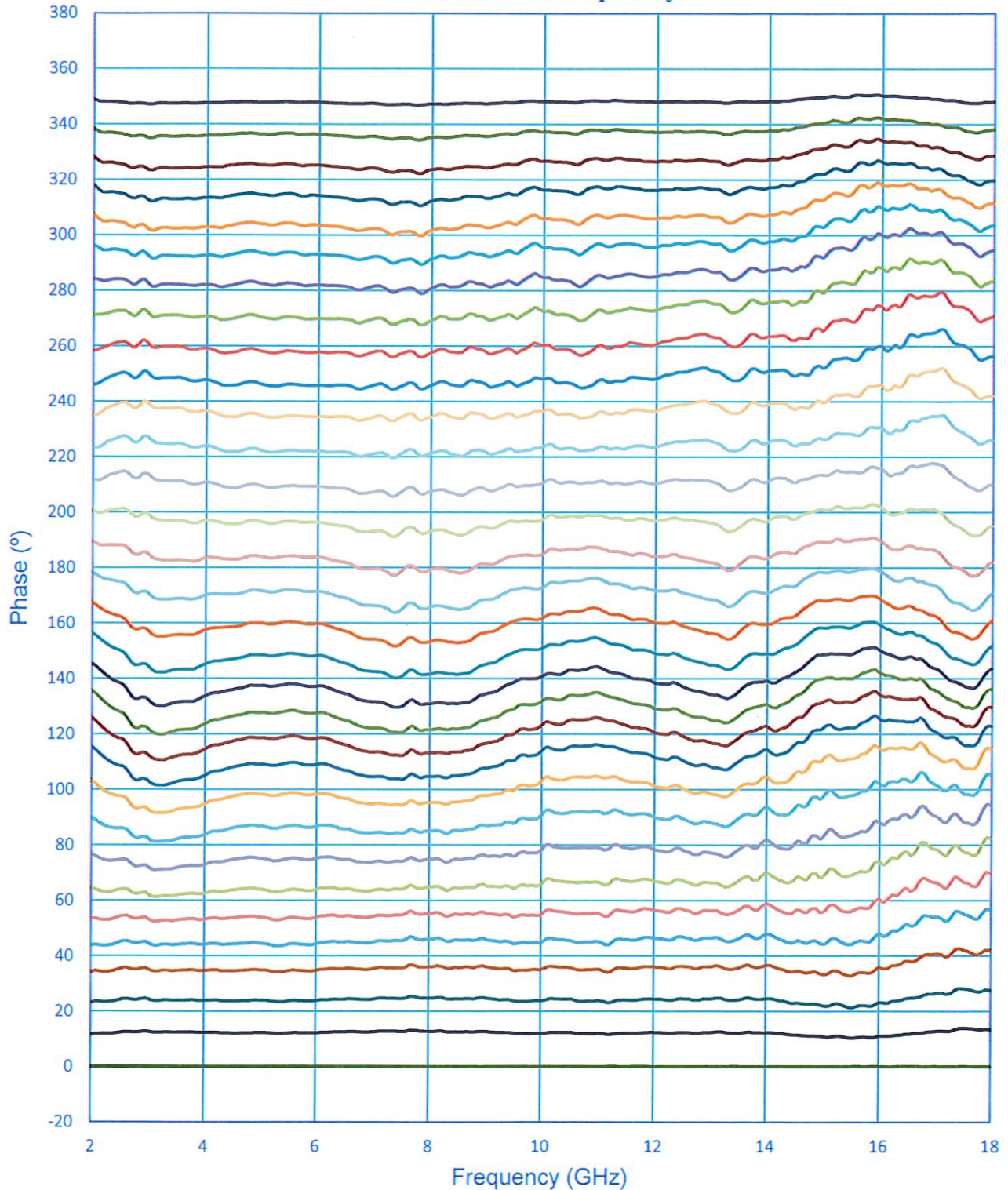




# Summary Data For PS-2G18G-360-12D-TS

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### Phase Vs. Frequency



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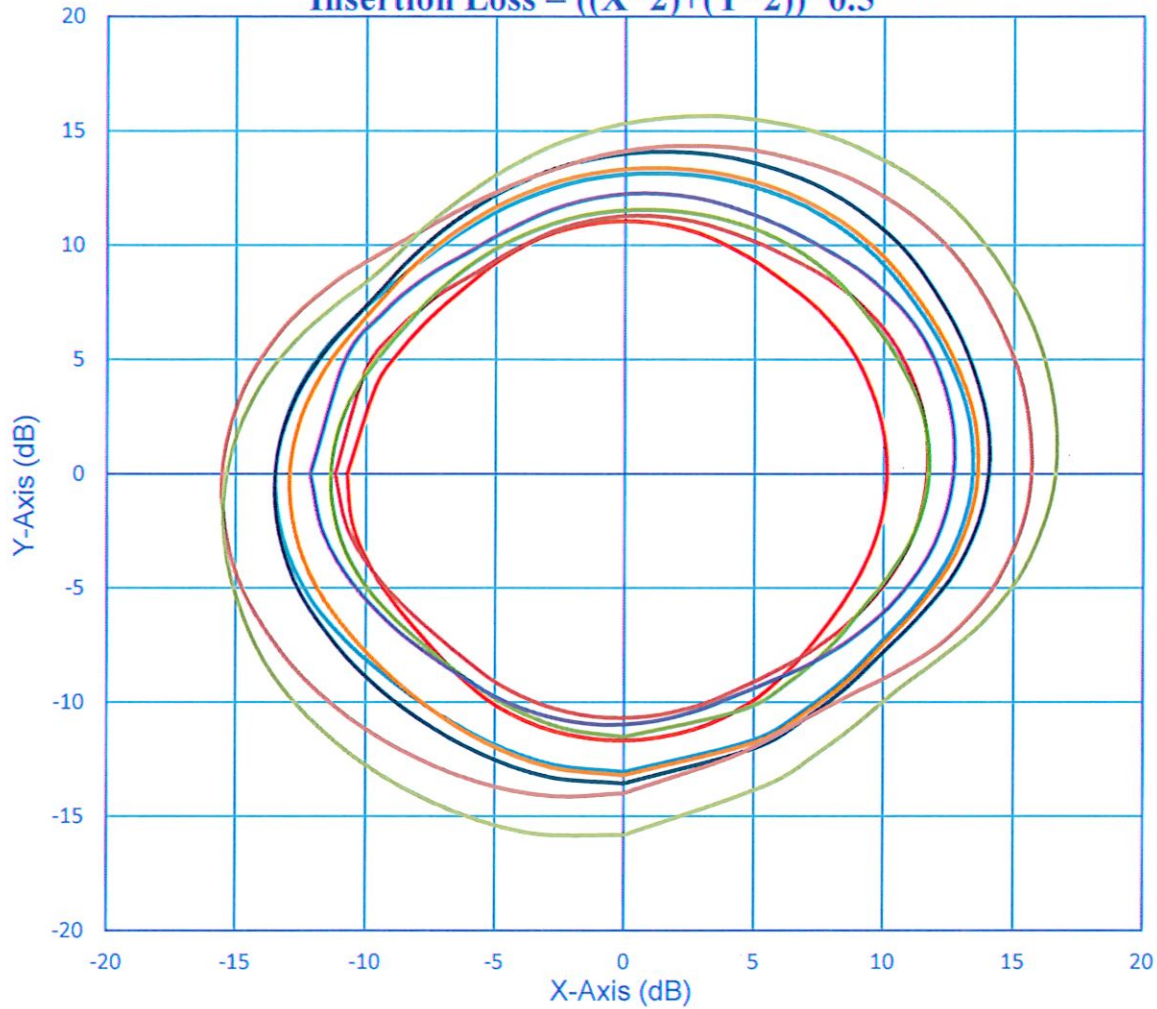


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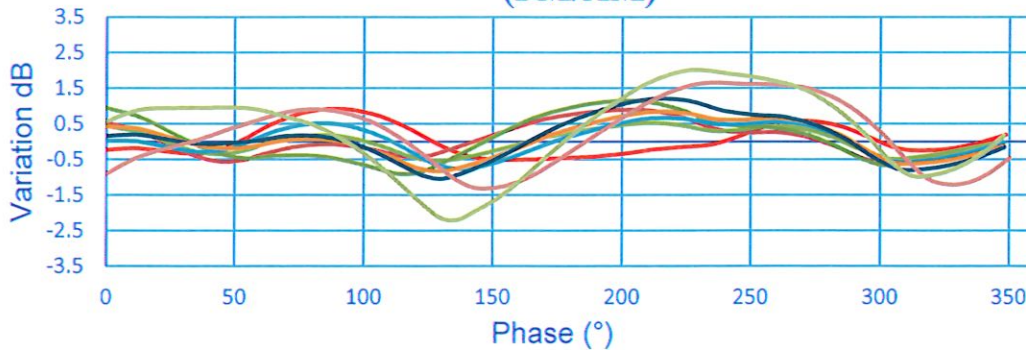
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### Insertion Loss Vs. Phase

Insertion Loss =  $((X^2)+(Y^2))^{0.5}$



### Amplitude Linearity Vs. Phase (PM/AM)



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