



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

Customer: \_\_\_\_\_

Tested By: E. Kretz

SO No: \_\_\_\_\_

Temperature: +25°C

Model No: PS-2G18G-360-12D-TS

Date 8/30/2023

Serial No: PL41978/2335

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<br>QA2 |
| 2            | Phase Range                           | 360°   | 360°  |            |
| 3            | Insertion Loss                        | 18 dB MAX.                                   | 16.83 dB                                      |            |
| 4            | VSWR                                  | 2.2:1 MAX.                                   | 2.05:1  |            |
| 5            | Amplitude Variation Vs. Phase (PM/AM) | ±3.5 dB TYP.                                 | ±2.13 dB                                      |            |
| 6            | Phase vs. Frequency                   | ±15.0° TYP.                                  | ±12.98°                                       |            |
| 7            | Control Logic                         | 12 BIT TTL Compatible.                       | Verified                                      |            |
| 8            | Control Slopes                        | Linear                                       | Verified                                      |            |
| 9            | Switching Speed                       | 500 nSec MAX.                                | 410 nsec TYP<br>(See Typical Characteristics) |            |
| 10           | Power Supply                          | +12 to +15V @ 100 mA<br>-12 to -15V @ 100 mA | +15 @ 63 mA<br>-15 @ 76 mA                    | PMI<br>QA2 |

\*Measured at 0 dBm Input Power

QA Signature: \_\_\_\_\_

PMI  
QA2

Date: \_\_\_\_\_

8/31/2023



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## Phase State Legend

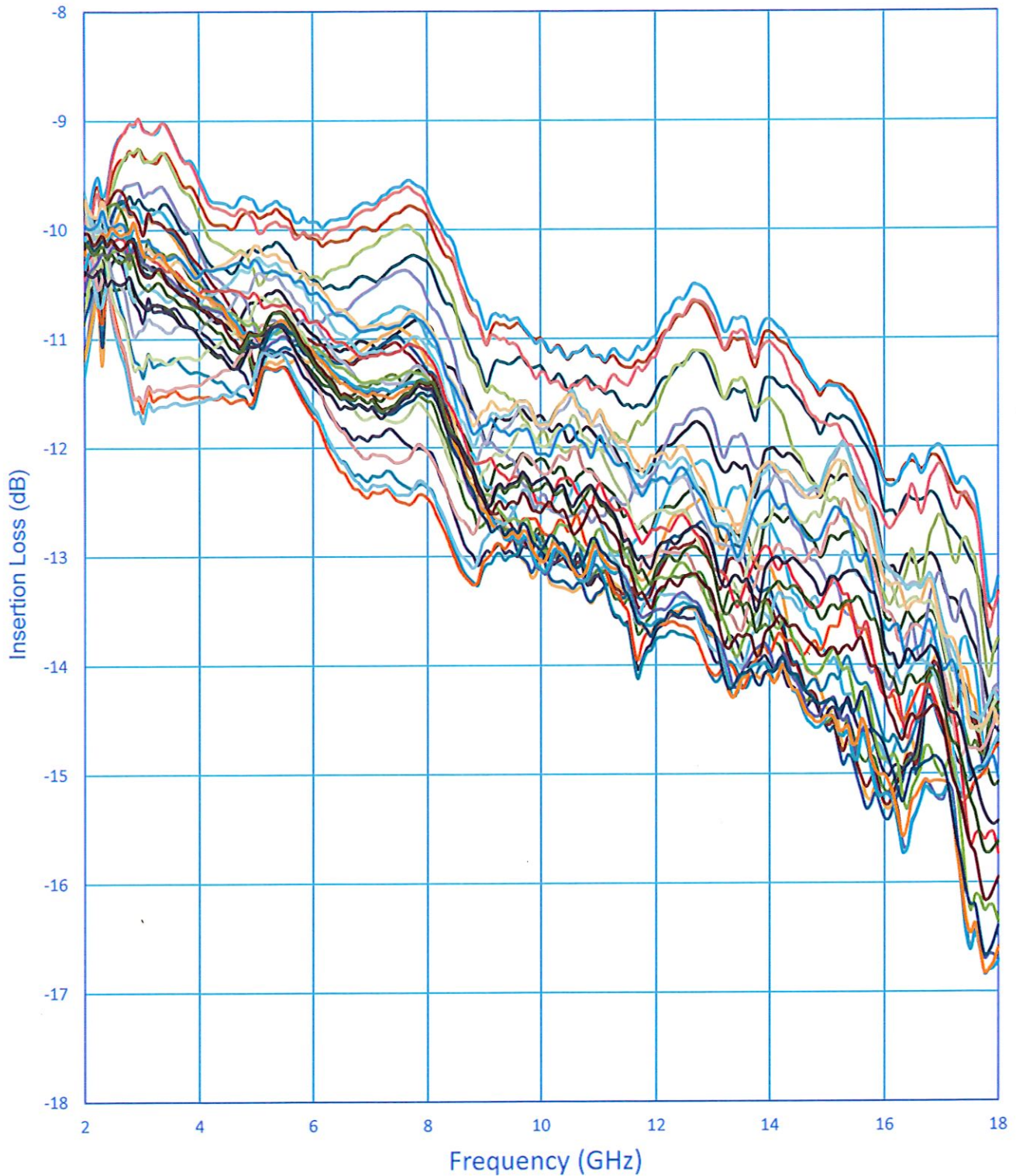
|                  |                     |                    |                     |
|------------------|---------------------|--------------------|---------------------|
| Phase 0 (0 °)    | Phase 1 (11.25 °)   | Phase 2 (22.5 °)   | Phase 3 (33.75 °)   |
| Phase 4 (45 °)   | Phase 5 (56.25 °)   | 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**



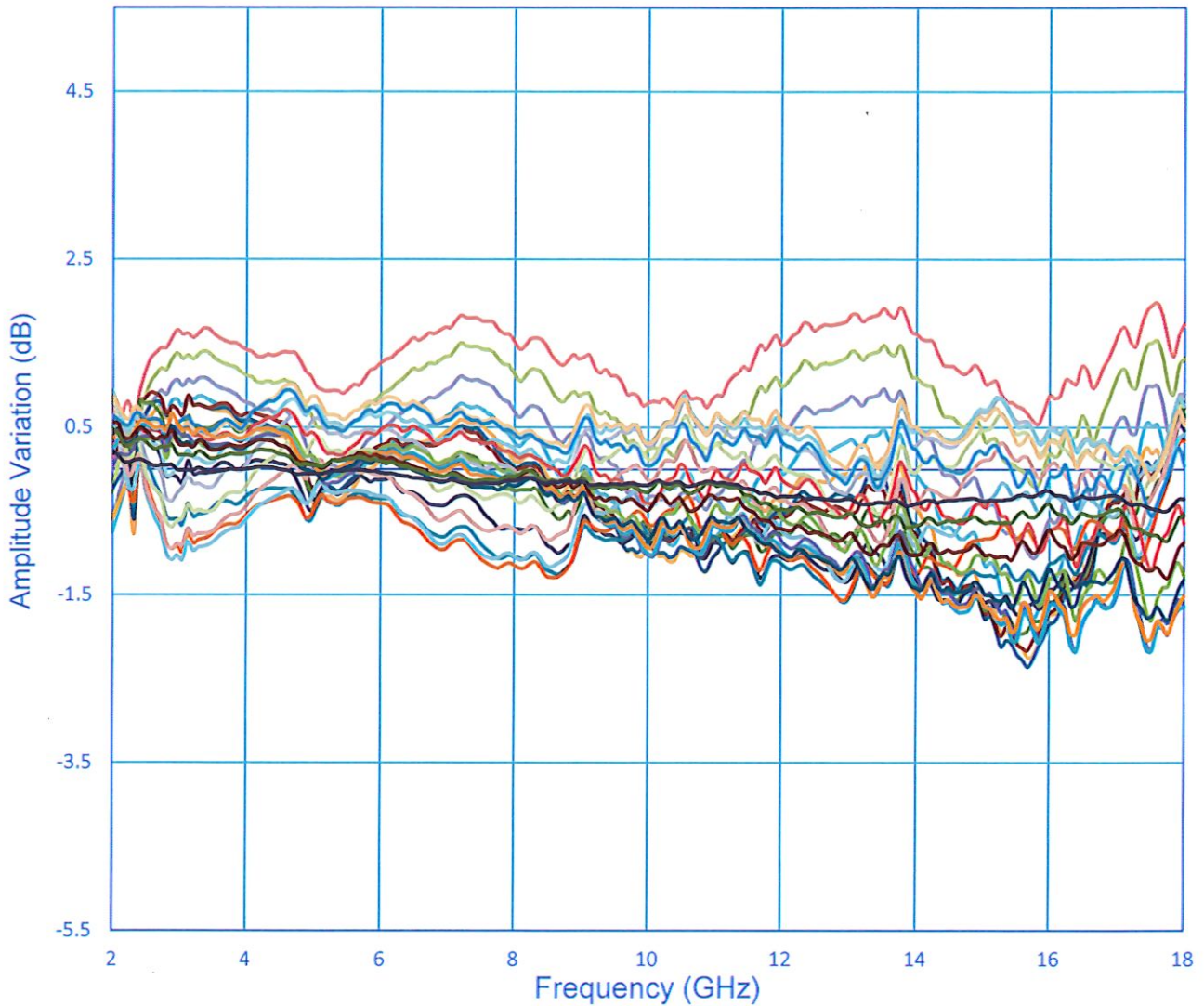
7309-A Grove Road Frederick, MD 21704 USA  
Phone: (301)662-5019 Fax: (301)662-1731  
Website: [www.pmi-rf.com](http://www.pmi-rf.com) Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



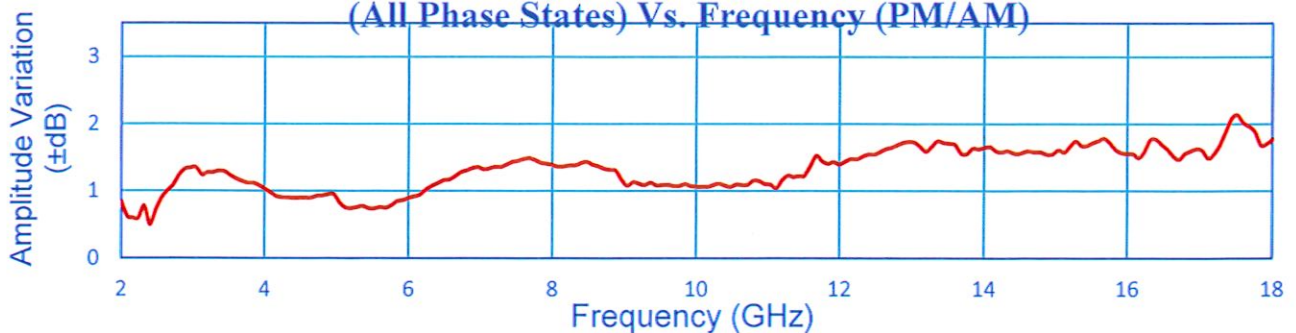
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### Amplitude Vs. Frequency (PM/AM)



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



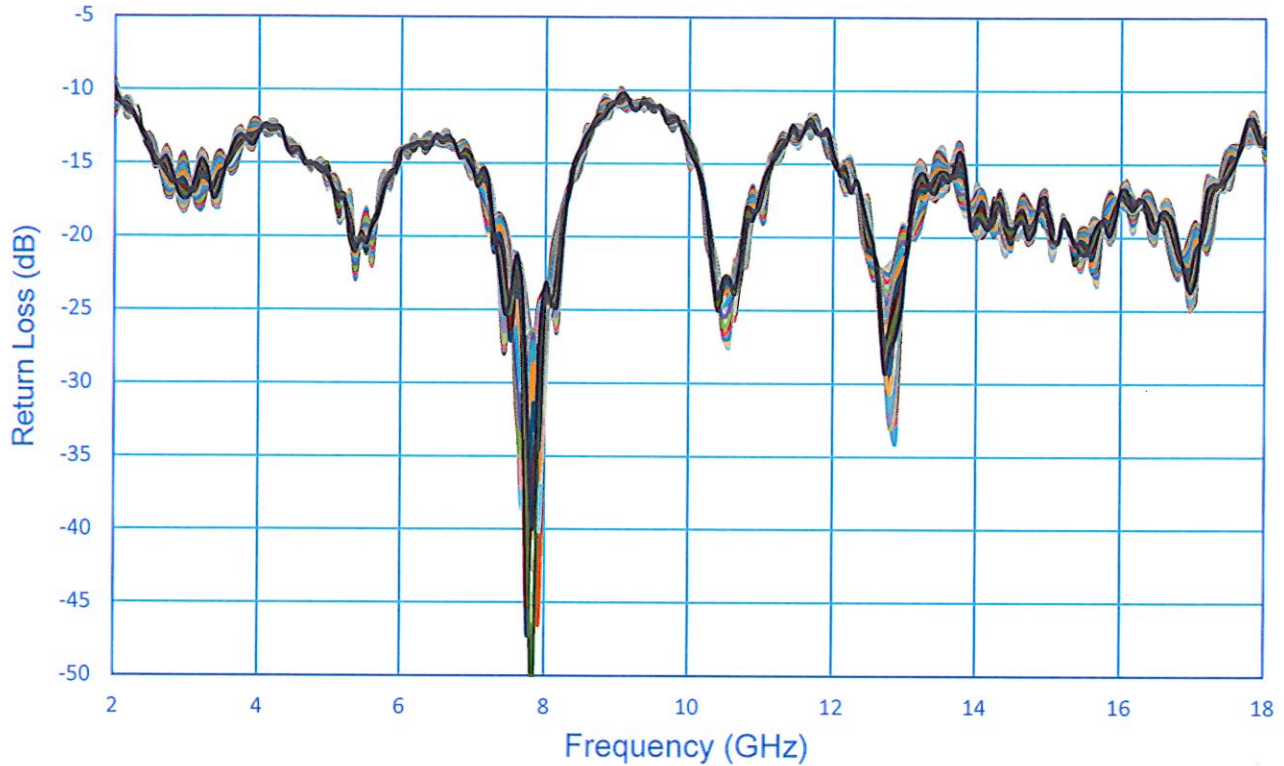
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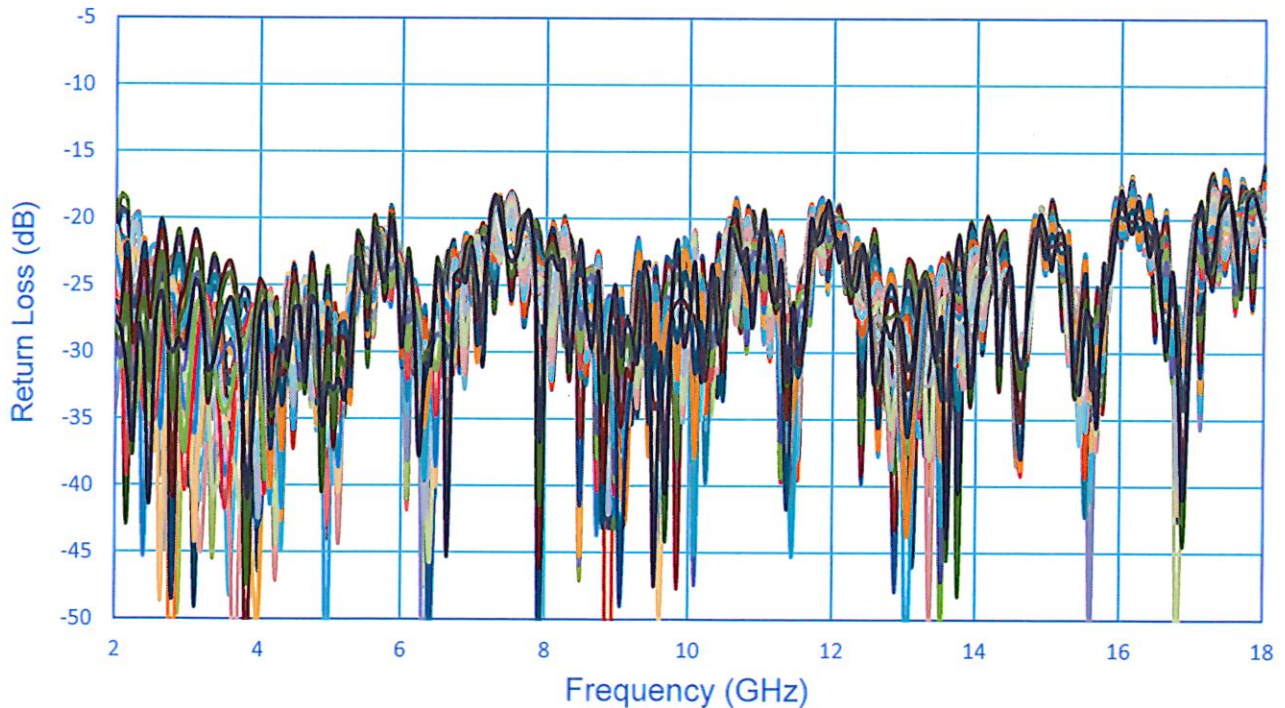
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**Input Return Loss Vs. Frequency**



**Output Return Loss Vs. Frequency**



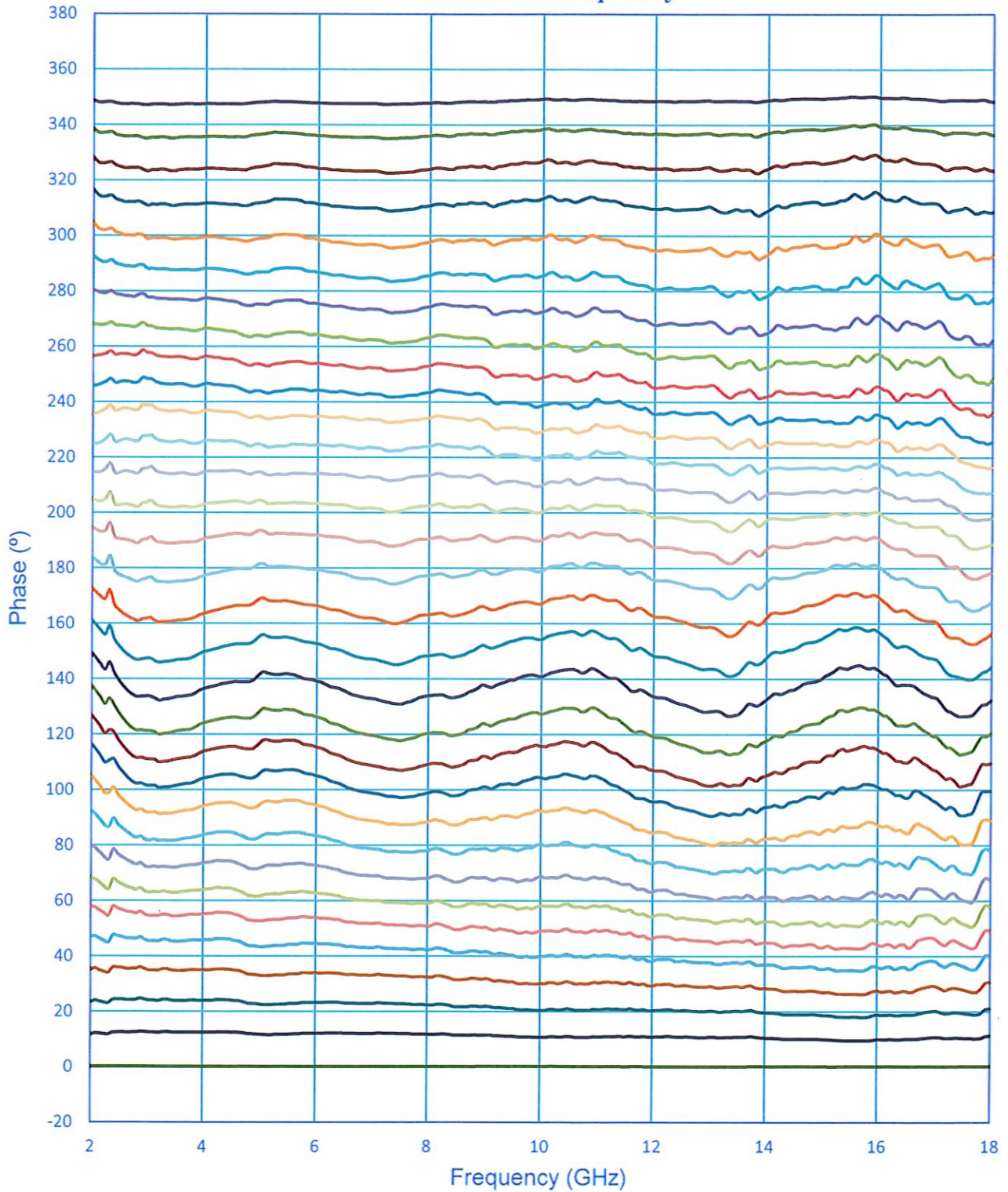
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### Phase Vs. Frequency

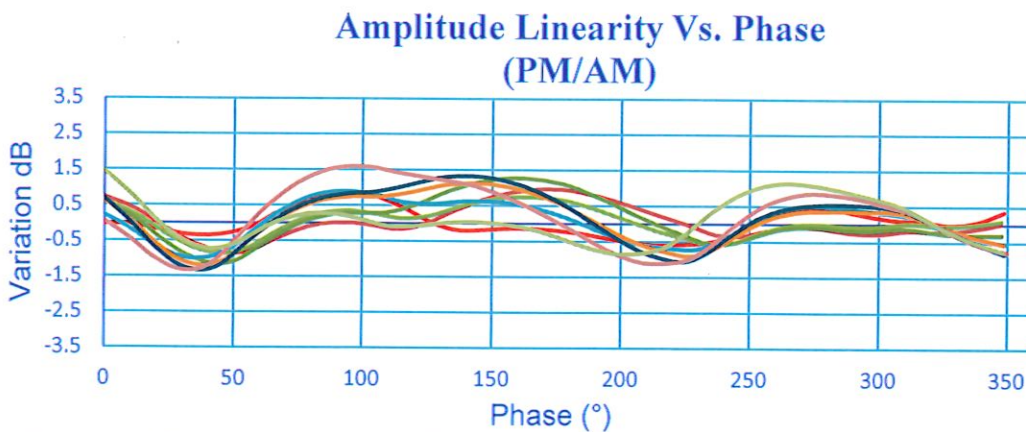
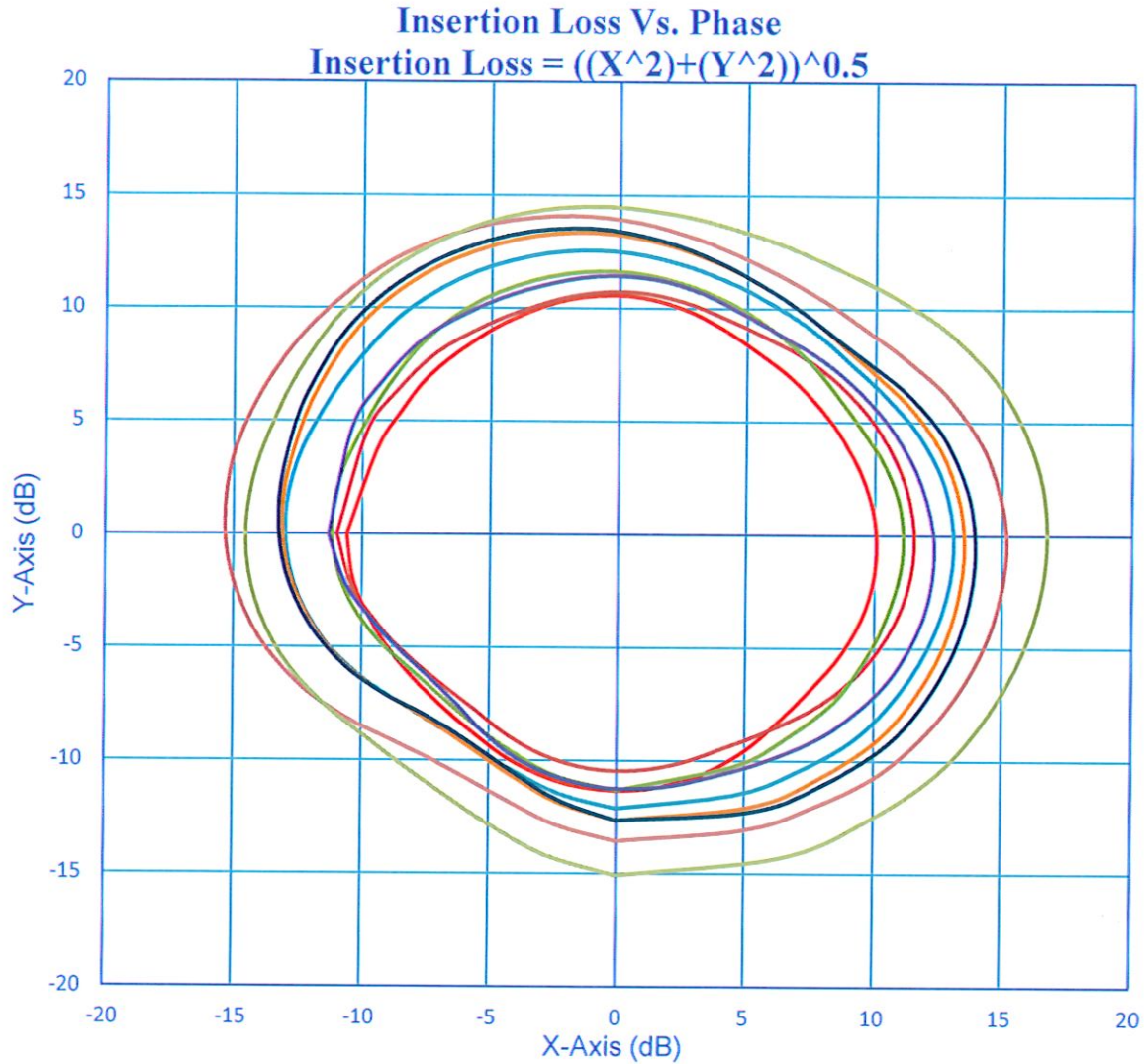


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# Summary Data For PS-2G18G-360-12D-TS

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— 2 GHz — 4 GHz — 6 GHz — 8 GHz — 10 GHz — 12 GHz — 14 GHz — 16 GHz — 18 GHz

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