

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

Customer: \_\_\_\_\_  
Job No: \_\_\_\_\_  
Model No: PS-30M2G-8B-SFF  
Serial No: PL50720/2450

Tested By: K. Mansfield  
Date: Friday, December 13, 2024  
Temp: +25°C  
Drawing No: 27644980 Rev: B1

Data Taken at -10 dBm Input Power

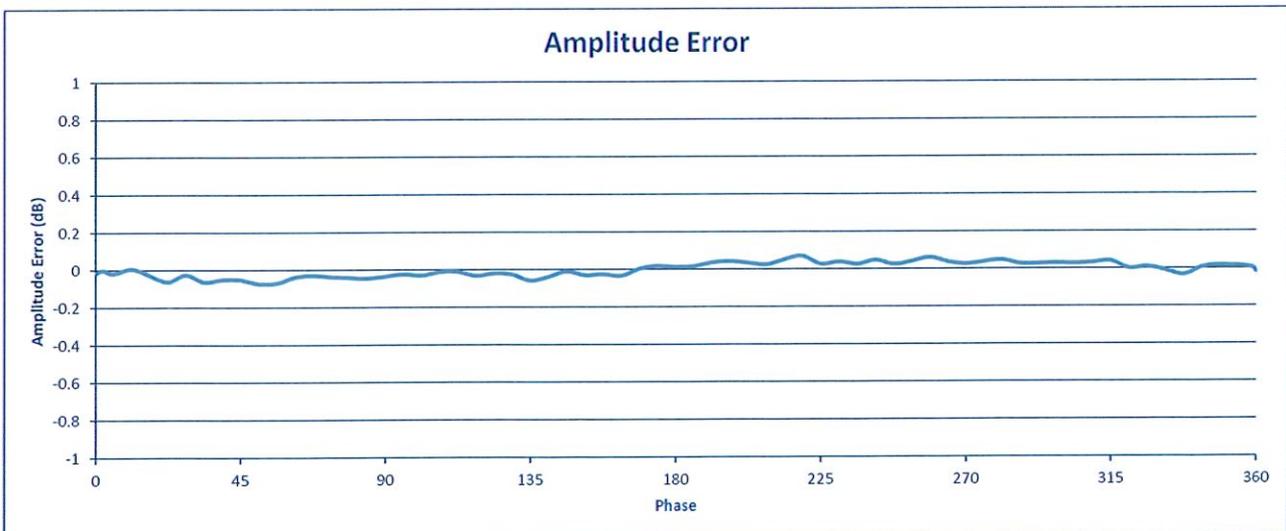
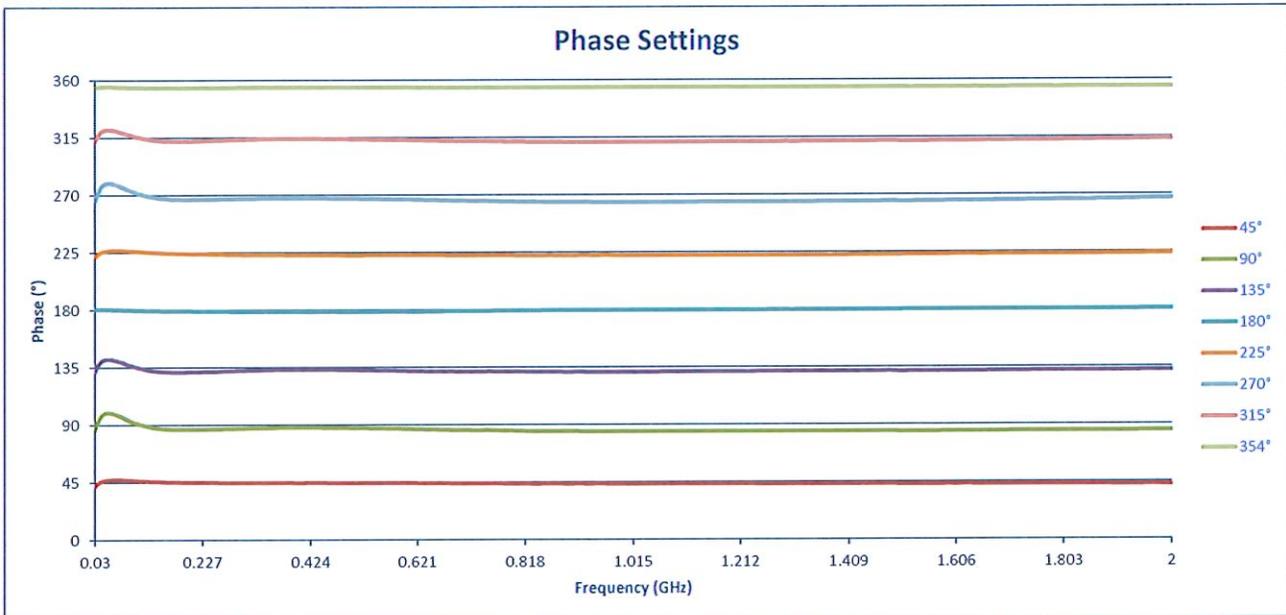
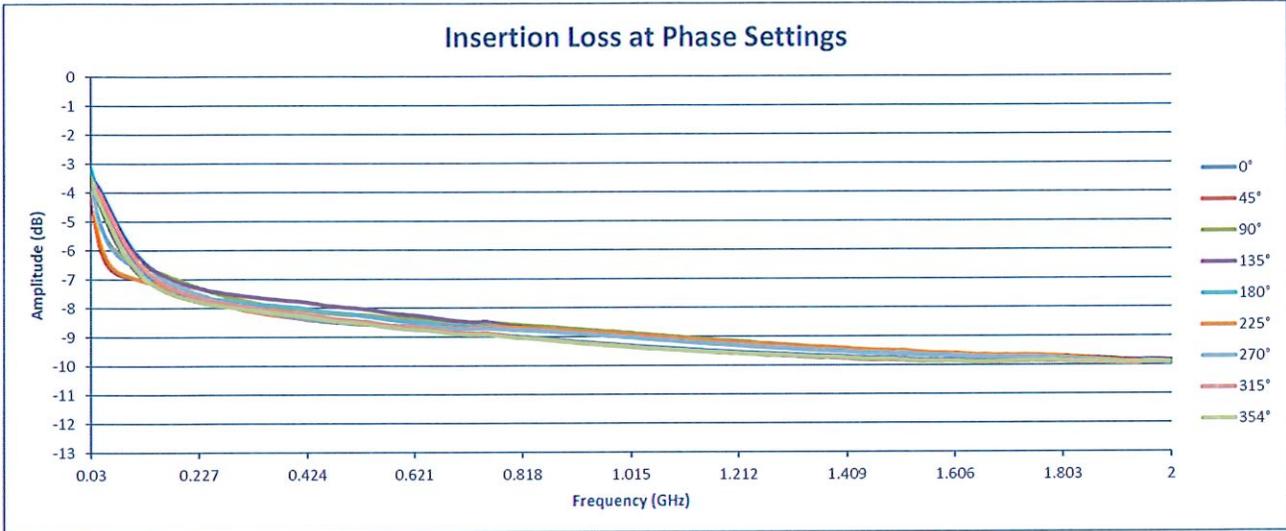
| Test Item No. | Parameters         | Specified Value | Measured Value                  | QA QC   |
|---------------|--------------------|-----------------|---------------------------------|---------|
| 1             | Frequency Range:   | 0.03 to 2.0 GHz | 0.03 to 2.0 GHz                 | PMI QA4 |
| 2             | Control:           | 8 BIT TTL       | Pass                            |         |
| 3             | Insertion Loss:    | 13 dB Max.      | 9.98 dB<br>See Plot             |         |
| 4             | VSWR:              | 2.0:1 Max.      | 1.66:1                          |         |
| 5             | Phase Shift:       | 360° Typ.       | 360°                            |         |
| 6             | Amplitude Error:   | ±1.0 dB Typ.    | ±0.07 dB<br>See Plot            |         |
| 7             | Phase Shift Error: | ±10° Typ.       | +0.95°<br>-1.99°<br>See Plot    |         |
| 8             | Switching Speed:   | 500 ns Max.     | See Typical Characteristics     |         |
| 9             | Power Supply:      | +15 V<br>-15 V  | +15 V @ 190 mA<br>-15 V @ 30 mA | PMI QA4 |

| Programed Phase Shift | Phase Shift | Accuracy | Flatness |
|-----------------------|-------------|----------|----------|
| DEG                   | DEG         | DEG      | ±DEG     |
| 1.40625               | 1.34        | 0.06     | 0.14     |
| 2.8125                | 2.72        | 0.09     | 0.22     |
| 5.625                 | 5.45        | 0.17     | 0.39     |
| 11.25                 | 10.87       | 0.38     | 0.75     |
| 22.5                  | 22.03       | 0.47     | 1.26     |
| 45                    | 44.78       | 0.22     | 2.55     |
| 90                    | 91.92       | -1.92    | 7.72     |
| 180                   | 179.61      | 0.39     | 1.05     |
| 358.59375             | 358.55      | 0.04     | 0.15     |

| Programed Phase Shift | Phase Shift | Accuracy | Flatness |
|-----------------------|-------------|----------|----------|
| DEG                   | DEG         | DEG      | ±DEG     |
| 33.75                 | 33.24       | 0.51     | 1.74     |
| 67.5                  | 68.60       | -1.10    | 5.55     |
| 101.25                | 103.24      | -1.99    | 7.78     |
| 135                   | 136.26      | -1.26    | 5.23     |
| 168.75                | 168.84      | -0.09    | 1.82     |
| 202.5                 | 201.95      | 0.55     | 1.05     |
| 236.25                | 236.36      | -0.11    | 3.95     |
| 270                   | 271.77      | -1.77    | 7.76     |
| 303.75                | 305.41      | -1.66    | 6.37     |
| 337.5                 | 338.17      | -0.67    | 2.31     |

QA/QC Approval: *Cameron Kelly*

Date: 12/20/24



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