Quantic PMI
PLANAR MONOLITHICS

# SUMMARY TEST DATA ON DTA-0R4G18G-60-CD-1

Customer: [redacted]
Job No: [redacted]
Model No: DTA-0R4G18G-60-CD-1
Serial No: PL42565/2342

Tested By: K. Mansfield
Date: Wednesday, October 18, 2023
Temperature: +25° C
Drawing No: 27637160 Rev: A1

| TEST ITEM NO. | PARAMETERS | SPECIFIED VALUE | RESULTS | QA QC |
|---|---|---|---|---|
| 1 | Frequency Range: | 0.4 GHz – 18 GHz | 0.4 GHz – 18 GHz | PMI QA2 |
| 2 | Insertion Loss: | 4.8 dB Max. | 3.7 dB See Plot | |
| 3 | VSWR: | 2.0:1 Max. | 1.9:1 See Plot | |
| 4 | Flatness to 20 dB: | ± 1.0 dB Typ. | ±0.42 dB See Plot | |
| 6 | Flatness to 40 dB: | ± 1.25 dB Typ. | ±0.97 dB See Plot | |
| 7 | Flatness to 60 dB: | ± 3.0 dB Typ. | ±3.87 dB See Plot | |
| 8 | Accuracy of Attenuation 0 to 20 dB: | ± 1.0 dB Typ. | ±0.12 dB See Plot | |
| 9 | Accuracy of Attenuation 20 to 40 dB: | ± 1.5 dB Typ. | ±0.33 dB See Plot | |
| 10 | Accuracy of Attenuation 40 to 60 dB: | ± 2.0 dB Typ. | ±1.22 dB See Plot | |
| 11 | Switching Speed: | 1.0 µs Max. On 0.5 µs Max. Off | < 1.0 us See Typical Characteristics | |
| 12 | DC Supply: | +15 VDC @ 150 mA Max. | 104 mA | PMI QA2 |

| Programed Attenuation | Attenuation | Accuracy of Attenuation | Flatness dB |
|---|---|---|---|
| dB | dB | dB | ±dB |
| 0.0625 | 0.07 | -0.01 | 0.01 |
| 0.125 | 0.13 | -0.01 | 0.05 |
| 0.25 | 0.26 | -0.01 | 0.07 |
| 0.50 | 0.51 | -0.01 | 0.10 |
| 1.00 | 1.02 | -0.02 | 0.14 |
| 2.00 | 2.05 | -0.05 | 0.17 |
| 4.00 | 4.11 | -0.11 | 0.29 |
| 8.00 | 8.02 | -0.02 | 0.42 |
| 16.00 | 16.06 | 0.18 | 0.32 |
| 32.00 | 31.82 | 0.18 | 0.66 |
| 62.00 | 60.44 | 1.56 | 4.25 |
| 63.94 | 62.25 | 1.69 | 5.03 |

| Programed Attenuation | Attenuation | Accuracy of Attenuation | Flatness dB |
|---|---|---|---|
| dB | dB | dB | ±dB |
| 5.00 | 5.12 | -0.12 | 0.40 |
| 10.00 | 10.01 | -0.01 | 0.33 |
| 15.00 | 14.99 | 0.01 | 0.28 |
| 20.00 | 20.02 | -0.02 | 0.37 |
| 25.00 | 24.82 | 0.18 | 0.48 |
| 30.00 | 29.79 | 0.21 | 0.62 |
| 35.00 | 34.74 | 0.26 | 0.75 |
| 40.00 | 39.67 | 0.33 | 0.97 |
| 45.00 | 44.51 | 0.49 | 1.25 |
| 50.00 | 49.33 | 0.67 | 1.75 |
| 55.00 | 53.93 | 1.07 | 2.43 |
| 60.00 | 58.78 | 1.22 | 3.87 |

QA/QC Approval: PMI QA2 Date: 10/20/2023

7309-A Grove Road, Frederick, MD 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731
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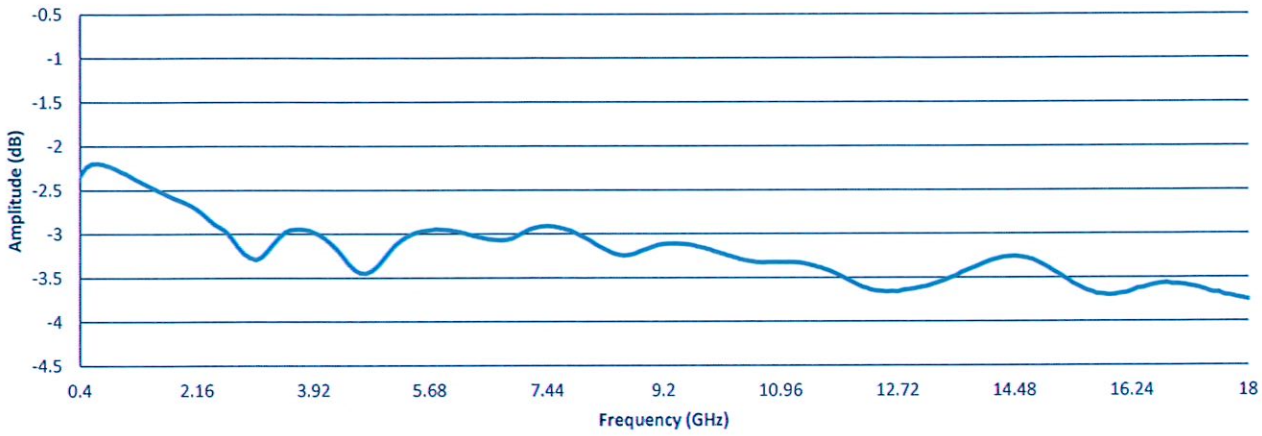
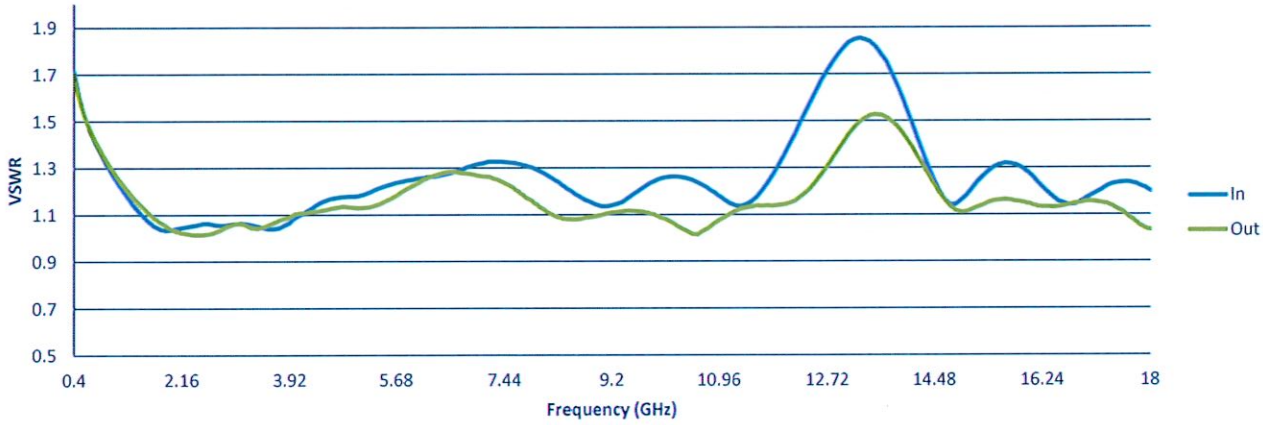
# ON
# DTA-0R4G18G-60-CD-1

PL42565/2342

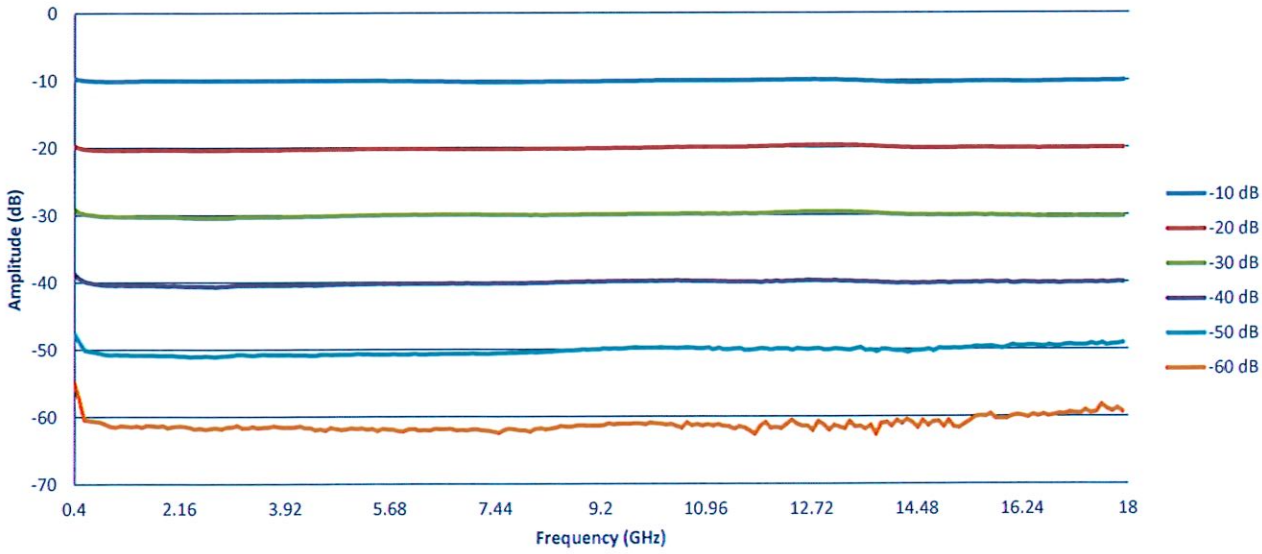
## Insertion Loss




## VSWR




## Attenuation vs. Frequency





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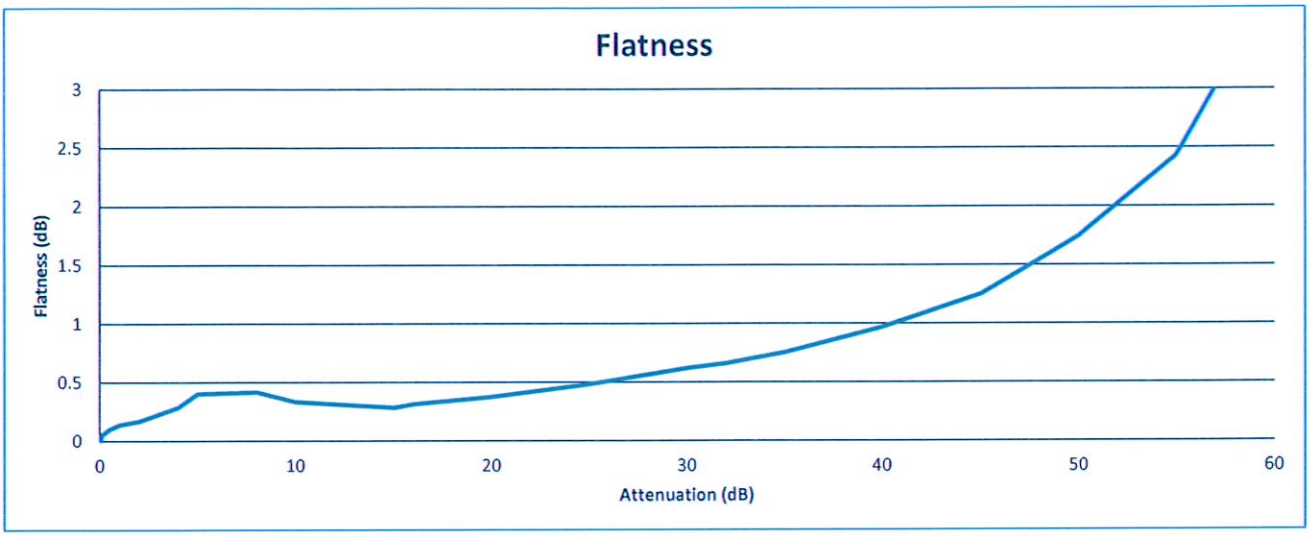


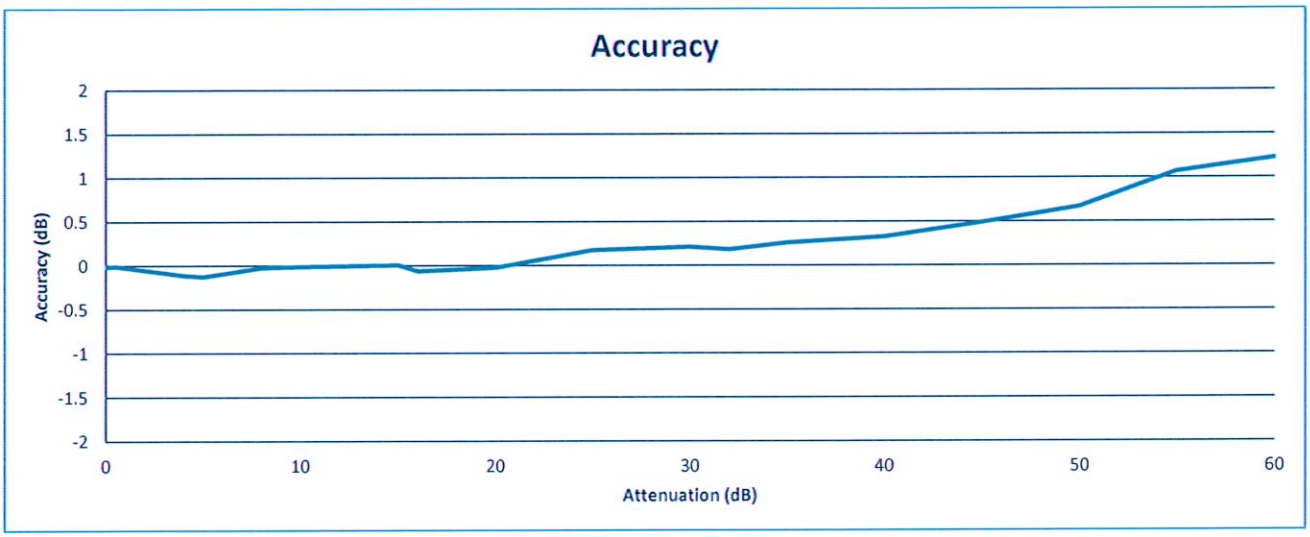


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