



SUMMARY TEST DATA ON DTA-2G18G-60-12-CD-1-20DBM-TS-NSI

Customer: _____ **Tested By:** K. Mansfield
Job No: _____ **Date:** Saturday, July 31, 2021
Model No: DTA-2G18G-60-12-CD-1-20DBM-TS-NSI **Temperature:** +25° C
Serial No: PL33249/2130 **Drawing No:** 27617795 **Rev:** A2

| TEST. ITEM NO | PARAMETERS | SPECIFIED VALUE | PASS/FAIL | QA QC | |
|---------------|---|---|--|-------------|-------------|
| 1 | Frequency Range: | 2 GHz – 18 GHz | 2 GHz – 18 GHz | PMI QA 2 | |
| 2 | Insertion Loss: | 4.8 dB Max. | 4.2 dB See Plot | | |
| 3 | VSWR: | 2.0:1 Max. | 1.87:1 See Plot | | |
| 4 | Flatness to 20 dB: | ± 1.0 dB Typ. | 0.56 dB See Plot | | |
| 6 | Flatness to 40 dB: | ± 1.25 dB Typ. | 0.75 dB See Plot | | |
| 7 | Flatness to 60 dB: | ± 3.0 dB Typ. | 1.76 dB See Plot | | |
| 8 | Accuracy of Attenuation 0 to 20 dB: | ± 1.0 dB Typ. | 0.08 dB See Plot | | |
| 9 | Accuracy of Attenuation 20 to 40 dB: | ± 1.5 dB Typ. | 0.09 dB See Plot | | |
| 10 | Accuracy of Attenuation 40 to 60 dB: | ± 2.0 dB Typ. | 0.36 dB See Plot | | |
| 11 | Temp. Sensor: | 10mV/°C, 3.0V @ 25°C | 3 V | | |
| 12 | Switching Speed: | On Time: 1.0 µs Max. Off Time: 0.5 µs Max. | <1.0 µs On Time <0.5 µs Off Time See Typical Characteristics | | |
| 13 | DC Supply: | +15VDC @ 150 mA Max. | 120 mA | | PMI QA 2 |

| Programed Attenuation | Attenuation | Accuracy of Attenuation | Flatness |
|-----------------------|-------------|-------------------------|----------|
| dB | dB | dB | dB |
| 0.0156 | 0.0262 | -0.01 | 0.01 |
| 0.0313 | 0.0374 | -0.01 | 0.01 |
| 0.0625 | 0.0664 | 0.00 | 0.01 |
| 0.125 | 0.127 | 0.00 | 0.02 |
| 0.25 | 0.25 | 0.00 | 0.02 |
| 0.50 | 0.49 | 0.01 | 0.05 |
| 1.00 | 0.99 | 0.01 | 0.09 |
| 2.00 | 1.99 | 0.01 | 0.18 |
| 4.00 | 4.01 | -0.01 | 0.33 |
| 8.00 | 8.01 | -0.01 | 0.34 |
| 16.00 | 15.98 | -0.02 | 0.45 |
| 32.00 | 32.02 | -0.02 | 0.72 |

| Programed Attenuation | Attenuation | Accuracy of Attenuation | Flatness |
|-----------------------|-------------|-------------------------|----------|
| dB | dB | dB | dB |
| 5.00 | 5.03 | -0.03 | 0.38 |
| 10.00 | 10.01 | -0.01 | 0.32 |
| 15.00 | 14.92 | 0.08 | 0.42 |
| 20.00 | 20.00 | 0.00 | 0.56 |
| 25.00 | 24.98 | 0.02 | 0.66 |
| 30.00 | 30.05 | -0.05 | 0.70 |
| 35.00 | 35.09 | -0.09 | 0.75 |
| 40.00 | 40.05 | -0.05 | 0.71 |
| 45.00 | 45.05 | -0.05 | 0.55 |
| 50.00 | 50.22 | -0.22 | 0.64 |
| 55.00 | 54.98 | 0.02 | 1.03 |
| 60.00 | 60.36 | -0.36 | 1.76 |

QA/QC Approval:

PMI
QA 2

Date: 7/31/2021



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