

**SUMMARY TEST DATA  
ON  
DTA-1G18G-60-CD-2**

Customer: \_\_\_\_\_ Tested By: K. Mansfield  
 SO No: \_\_\_\_\_ Date: 1/25/2024  
 Model No: DTA-1G18G-60-CD-2 Temperature: +25° C  
 Serial No: PL43975/2404 Drawing No: 27621593 Rev: A2

| TEST ITEM NO. | PARAMETERS                              | SPECIFIED VALUE      | TEST RESULTS                | QA QC      |            |
|---------------|---|----------------------|-----------------------------|------------|------------|
| 1             | Frequency Range:                        | 1 GHz – 18 GHz       | 1 GHz – 18 GHz              | PMI<br>QA2 |            |
| 2             | Insertion Loss:                         | 4.8 dB Max.          | 4.4 dB<br>See Plot          |            |            |
| 3             | VSWR:                                   | 2.0:1 Max.           | 1.7:1<br>See Plot           |            |            |
| 4             | Flatness to 20 dB:                      | ± 1.0 dB Typ.        | ±0.52 dB<br>See Plot        |            |            |
| 6             | Flatness to 40 dB:                      | ± 1.25 dB Typ.       | ±0.87 dB<br>See Plot        |            |            |
| 7             | Flatness to 60 dB:                      | ± 3.0 dB Typ.        | ±1.6 dB<br>See Plot         |            |            |
| 8             | Accuracy of Attenuation<br>0 to 20 dB:  | ± 1.0 dB Typ.        | ±0.78 dB<br>See Plot        |            |            |
| 9             | Accuracy of Attenuation<br>20 to 40 dB: | ± 1.5 dB Typ.        | ±0.66 dB<br>See Plot        |            |            |
| 10            | Accuracy of Attenuation<br>40 to 60 dB: | ± 2.0 dB Typ.        | ±0.53 dB<br>See Plot        |            |            |
| 11            | Switching Speed:                        | 1.0 us Max.          | See Typical Characteristics |            |            |
| 12            | DC Supply:                              | +15VDC @ 150 mA Max. | 120 mA                      |            | PMI<br>QA2 |

| Programed Attenuation | Attenuation | Accuracy of Attenuation | Flatness dB |
|-----------------------|-------------|-------------------------|-------------|
| dB                    | dB          | dB                      | ±dB         |
| 0.0625                | 0.07        | -0.01                   | 0.02        |
| 0.125                 | 0.13        | 0.00                    | 0.02        |
| 0.25                  | 0.24        | 0.01                    | 0.03        |
| 0.50                  | 0.49        | 0.01                    | 0.03        |
| 1.00                  | 0.97        | 0.03                    | 0.06        |
| 2.00                  | 1.94        | 0.06                    | 0.11        |
| 4.00                  | 3.91        | 0.09                    | 0.21        |
| 8.00                  | 7.71        | 0.29                    | 0.24        |
| 16.00                 | 15.29       | 0.54                    | 0.33        |
| 32.00                 | 31.46       | 0.54                    | 0.82        |
| 62.00                 | 62.16       | -0.16                   | 1.75        |
| 63.94                 | 64.09       | -0.15                   | 2.27        |

| Programed Attenuation | Attenuation | Accuracy of Attenuation | Flatness dB |
|-----------------------|-------------|-------------------------|-------------|
| dB                    | dB          | dB                      | ±dB         |
| 5.00                  | 4.86        | 0.14                    | 0.24        |
| 10.00                 | 9.65        | 0.35                    | 0.24        |
| 15.00                 | 14.22       | 0.78                    | 0.29        |
| 20.00                 | 19.35       | 0.65                    | 0.52        |
| 25.00                 | 24.34       | 0.66                    | 0.68        |
| 30.00                 | 29.45       | 0.55                    | 0.76        |
| 35.00                 | 34.51       | 0.49                    | 0.82        |
| 40.00                 | 39.51       | 0.49                    | 0.87        |
| 45.00                 | 44.47       | 0.53                    | 0.76        |
| 50.00                 | 49.62       | 0.38                    | 0.70        |
| 55.00                 | 55.17       | -0.17                   | 0.84        |
| 60.00                 | 60.24       | -0.24                   | 1.60        |

QA/QC Approval: 

PMI  
QA2

Date: 1/25/2024



