

**SUMMARY TEST DATA  
ON  
DTA-0R5G18G-60-CD-1**

Customer: \_\_\_\_\_  
Job No: \_\_\_\_\_  
Model No: DTA-0R5G18G-60-CD-1  
Serial No: PL45741/2417

Tested By: A. Mousavi  
Date: Friday, April 26, 2024  
Temperature: +25° C  
Drawing No: 27617795 Rev: A2

| TEST ITEM NO. | PARAMETERS                              | SPECIFIED VALUE                   | RESULTS                                 | QA QC      |            |
|---------------|---|-----------------------------------|---|------------|------------|
| 1             | Frequency Range:                        | 0.5 GHz – 18 GHz                  | 0.5 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.                     | ±0.31 dB<br>See Plot                    |            |            |
| 6             | Flatness to 40 dB:                      | ± 1.25 dB Typ.                    | ±1.19 dB<br>See Plot                    |            |            |
| 7             | Flatness to 60 dB:                      | ± 3.0 dB Typ.                     | ±2.57 dB<br>See Plot                    |            |            |
| 8             | Accuracy of Attenuation<br>0 to 20 dB:  | ± 1.0 dB Typ.                     | ±0.1 dB<br>See Plot                     |            |            |
| 9             | Accuracy of Attenuation<br>20 to 40 dB: | ± 1.5 dB Typ.                     | ±0.19 dB<br>See Plot                    |            |            |
| 10            | Accuracy of Attenuation<br>40 to 60 dB: | ± 2.0 dB Typ.                     | ±0.27 dB<br>See Plot                    |            |            |
| 11            | Switching Speed:                        | 1.0 µs Max. On<br>0.5 µs Max. Off | < 1.0 us<br>See Typical Characteristics |            |            |
| 12            | DC Supply:                              | +15 VDC @ 150 mA Max.             | 120 mA                                  |            | PMI<br>QA2 |

| Programed Attenuation | Attenuation | Accuracy of Attenuation | Flatness dB |
|-----------------------|-------------|-------------------------|-------------|
| dB                    | dB          | dB                      | ±dB         |
| 0.0625                | 0.00        | 0.06                    | 0.00        |
| 0.125                 | 0.12        | 0.00                    | 0.03        |
| 0.25                  | 0.23        | 0.02                    | 0.04        |
| 0.50                  | 0.48        | 0.02                    | 0.06        |
| 1.00                  | 0.99        | 0.01                    | 0.06        |
| 2.00                  | 1.97        | 0.03                    | 0.11        |
| 4.00                  | 3.98        | 0.02                    | 0.20        |
| 8.00                  | 7.98        | 0.02                    | 0.26        |
| 16.00                 | 16.04       | -0.12                   | 0.29        |
| 32.00                 | 32.12       | -0.12                   | 0.93        |
| 62.00                 | 62.34       | -0.34                   | 2.87        |
| 63.94                 | 64.09       | -0.15                   | 3.12        |

| Programed Attenuation | Attenuation | Accuracy of Attenuation | Flatness dB |
|-----------------------|-------------|-------------------------|-------------|
| dB                    | dB          | dB                      | ±dB         |
| 5.00                  | 4.90        | 0.10                    | 0.25        |
| 10.00                 | 9.99        | 0.01                    | 0.23        |
| 15.00                 | 14.95       | 0.05                    | 0.28        |
| 20.00                 | 20.04       | -0.04                   | 0.31        |
| 25.00                 | 25.02       | -0.02                   | 0.59        |
| 30.00                 | 30.11       | -0.11                   | 0.84        |
| 35.00                 | 35.11       | -0.11                   | 1.06        |
| 40.00                 | 40.19       | -0.19                   | 1.19        |
| 45.00                 | 45.24       | -0.24                   | 1.30        |
| 50.00                 | 50.22       | -0.22                   | 1.50        |
| 55.00                 | 55.19       | -0.19                   | 1.92        |
| 60.00                 | 60.27       | -0.27                   | 2.57        |

QA/QC Approval: 

PMI  
QA2

Date: 4/30/2024



