

# SUMMARY TEST DATA ON PVA-500M18G-60-SFF

Customer: \_\_\_\_\_  
 Job No: \_\_\_\_\_  
 Model No: PVA-500M18G-60-SFF  
 Serial No: 44512  
 Part No: \_\_\_\_\_

Tested By: K. Mansfield  
 Date: Tuesday, November 5, 2024  
 Temperature: +25° C  
 Drawing No: 27622555 Rev: B1

| TEST.<br>ITEM NO | PARAMETERS            | SPECIFIED VALUE                                                                                         | PASS/FAIL                                                | QA<br>QC   |
|------------------|-----------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------|
| 1                | Frequency Range:      | 0.5 GHz to 18 GHz                                                                                       | 0.5 GHz to 18 GHz                                        | PMI<br>QA4 |
| 2                | Insertion Loss:       | 0.5 to 12.0 GHz 4.5 dB Max.<br>12.0 to 18.0 GHz 5.2 dB Max.                                             | 3.8 dB<br>4.3 dB<br>See Plot                             |            |
| 3                | VSWR:                 | 2.2:1 Max.                                                                                              | 1.9:1<br>See Plot                                        |            |
| 4                | Attenuation Flatness: | 0 - 30 dB ±2.5 dB Max.<br>30 - 40 dB ±3.5 dB Max.<br>40 - 50 dB ±4.5 dB Max.<br>50 - 60 dB ±5.5 dB Max. | ±1.51 dB<br>±2.22 dB<br>±3.01 dB<br>±4.17 dB<br>See Plot |            |
| 5                | Attenuation Accuracy: | 0 - 10 dB ±1.0 dB Max.<br>10 - 20 dB ±1.5 dB Max.<br>20 - 40 dB ±2.0 dB Max.<br>40 - 60 dB ±2.5 dB Max. | 0.56 dB<br>0.44 dB<br>0.24 dB<br>0.51 dB<br>See Plot     |            |
| 6                | Rise and Fall Time:   | 3 us Max.                                                                                               | < 2 µs<br>See Typical Characteristics                    |            |
| 7                | RF Power (Operating): | +20 dBm CW Max.                                                                                         | Pass                                                     |            |
| 8                | RF Power (Survival):  | +30 dBm CW Max.                                                                                         | Pass                                                     |            |
| 9                | Power Supply:         | +12 VDC @ 250 mA Max.<br>-12 VDC @ 50 mA Max.                                                           | +12 VDC @ 110 mA<br>-12 VDC @ 0 mA                       |            |
| 10               | Control:              | 10 dB / Volt Analog Controlled                                                                          | Pass                                                     | PMI<br>QA4 |

| Voltage<br>Control (mV) | Programmed<br>Attenuation (dB) | Attenuation (dB) | Accuracy of<br>Attenuation (dB) | Flatness<br>(± dB) |
|-------------------------|--------------------------------|------------------|---------------------------------|--------------------|
| 1500                    | 15                             | 14.8             | -0.2                            | 0.5                |
| 2500                    | 25                             | 25.1             | 0.1                             | 1.1                |
| 3500                    | 35                             | 35.2             | 0.2                             | 1.9                |
| 4500                    | 45                             | 45.0             | 0.0                             | 2.6                |
| 5500                    | 55                             | 55.3             | 0.3                             | 3.5                |

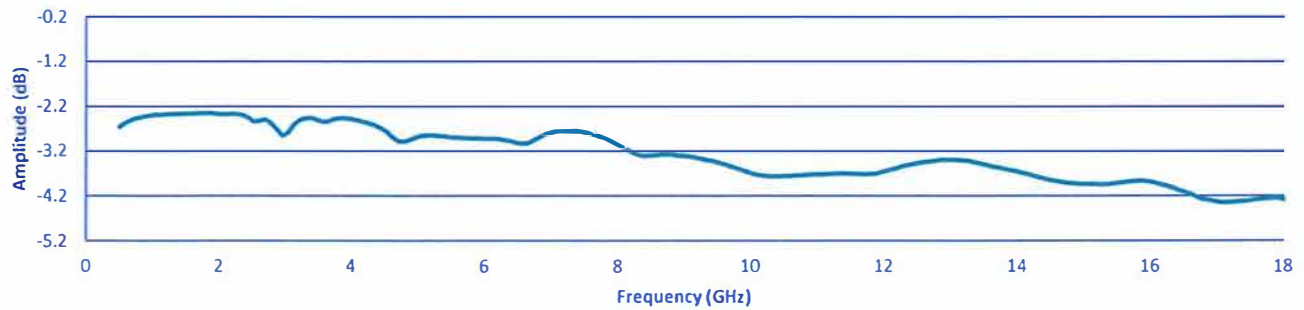
QA/QC Approval: *Cameron Kelly*

Date: 12/19/24

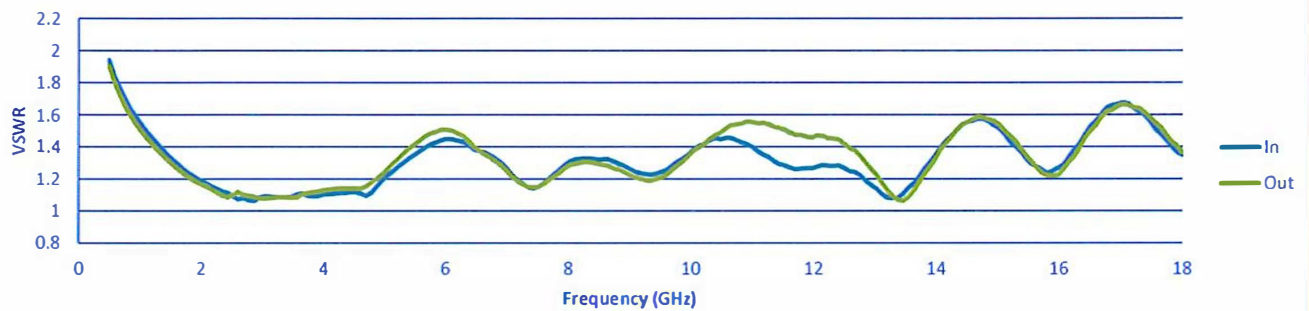
**SUMMARY TEST DATA  
ON  
PVA-500M18G-60-SFF**

44512

**Insertion Loss**



**VSWR**



**Attenuation vs. Frequency**

