

**SUMMARY TEST DATA  
ON  
PLNA-30-10M20-292FF**

Tested By: Darwin M.C.  
Temperature: +25° C  
Date: 8/8/2025  
Drawing No: 27641260 REV: A2

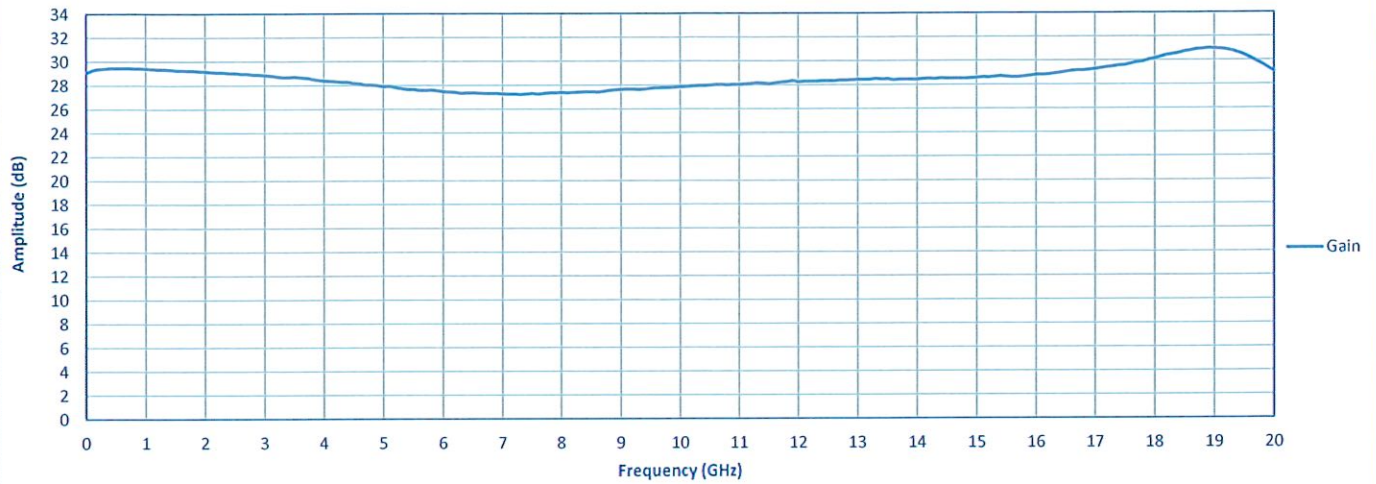
| TEST ITEM NO. | PARAMETERS                                                                                                             | SPECIFIED VALUE                                                                             | Test Results                                | QA QC      |
|---------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------|------------|
| 1             | Frequency Range:                                                                                                       | 10 MHz to 20.0 GHz                                                                          | 10 MHz to 20.0 GHz                          | PMI<br>QA4 |
| 2             | Gain:                                                                                                                  | 26 dB Min. (10 MHz to 18 GHz)<br>28 dB Min. (18 to 20 GHz)                                  | +27.2 dB Min.<br>+29.1 dB Min.<br>See Graph |            |
| 3             | Gain Flatness:<br>(@ any Operating Temp.)                                                                              | ±2.2 dB Max. (10 MHz to 18 GHz)<br>±3 dB Max. (10 MHz to 20 GHz)                            | ±1.42 dB<br>±0.95 dB<br>See Graph           |            |
| 4             | Noise Figure:                                                                                                          | 3.0 dB Typ. (20MHz to 0.5 GHz)<br>2.5 dB Typ. (0.5 to 18 GHz)<br>3.3 dB Typ. (18 to 20 GHz) | 2.2 dB<br>2.77 dB<br>2.85 dB<br>See Graph   |            |
| 5             | OP1dB:                                                                                                                 | +14 dBm Typ. (10MHz to 18 GHz)<br>+13 dBm Typ. (18 to 20 GHz)                               | +15.67 dBm<br>+14.02 dBm<br>See Graph       |            |
| 6             | Psat                                                                                                                   | +15 dBm Typ. (10MHz to 18 GHz)<br>+14 dBm Typ. (18 to 20 GHz)                               | +17.15 dBm<br>+14.39 dBm<br>See Graph       |            |
| 7             | OIP3:                                                                                                                  | +25 dBm Typ. (10MHz to 18 GHz)<br>+23 dBm Typ. (18 to 20 GHz)                               | Pass<br>See typical Characteristics         |            |
| 8             | VSWR Input                                                                                                             | 2.0:1 Max. (10MHz to 18 GHz)<br>2.2:1 Typ. (18 to 20 GHz)                                   | 1.92:1<br>1.79:1<br>See Graph               |            |
| 9             | VSWR Output:                                                                                                           | 2.1:1 Max. (10 MHz to 18 GHz)<br>2.4:1 Max. (18 GHz to 20 GHz)                              | 2.02:1<br>2.29:1<br>See Graph               |            |
| 10            | Second Harmonic:<br>(-30dBm Input Power)<br>(at P1dB)<br>(+5dBm Over P1dB)<br>(+10dBm Over P1dB)<br>(+15dBm Over P1dB) | 70 dBc Typ.<br>12 dBc Typ.<br>12 dBc Typ.<br>12 dBc Typ.<br>12 dBc Typ.                     | Pass<br>See typical Characteristics         |            |
| 11            | Reverse Isolation:                                                                                                     | 36 dB Min. (10 MHz to 18 GHz)<br>35 dB Min. (18 to 20 GHz)                                  | 37 dB<br>36 dB<br>See Graph                 |            |
| 12            | DC Supply:                                                                                                             | +5 VDC @ 140 mA Max                                                                         | 100 mA                                      |            |

QA/QC Approval: *C. M. Kelley*

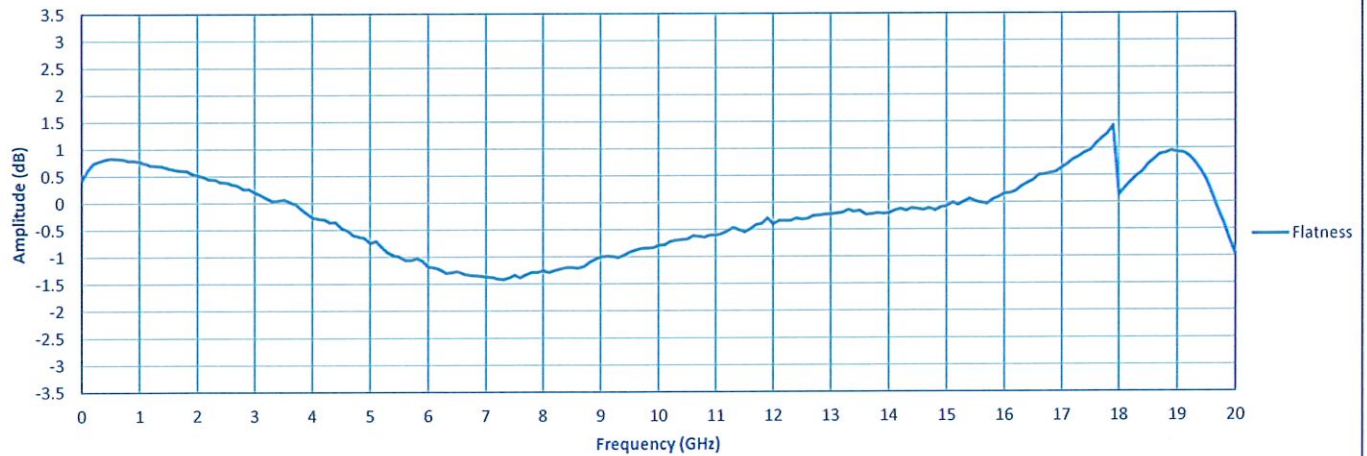
Date: 8/11/25

# SUMMARY TEST DATA ON PLNA-30-10M20-292FF

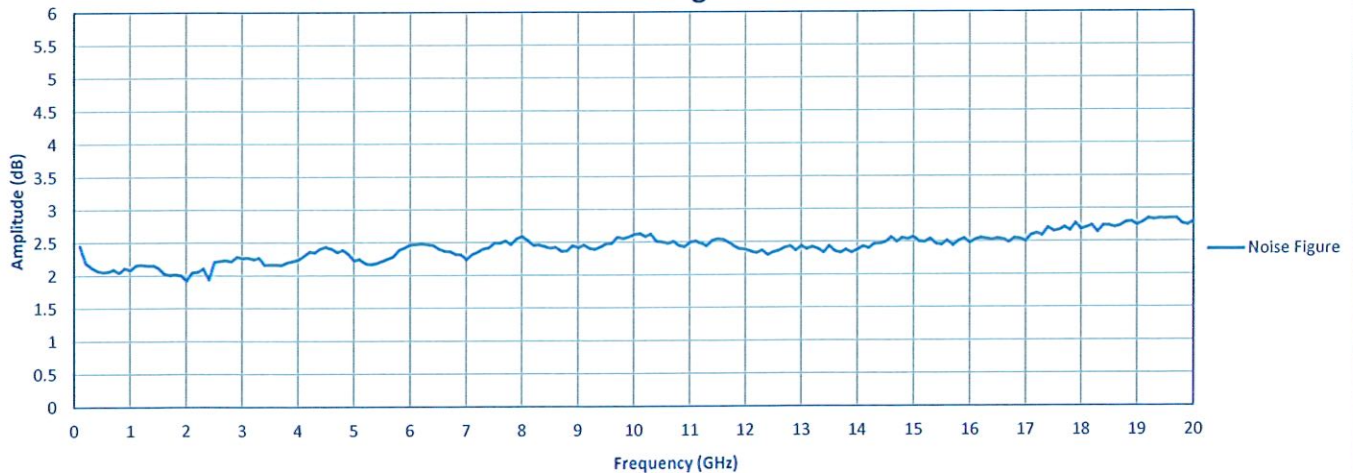
## Gain



## Gain Flatness

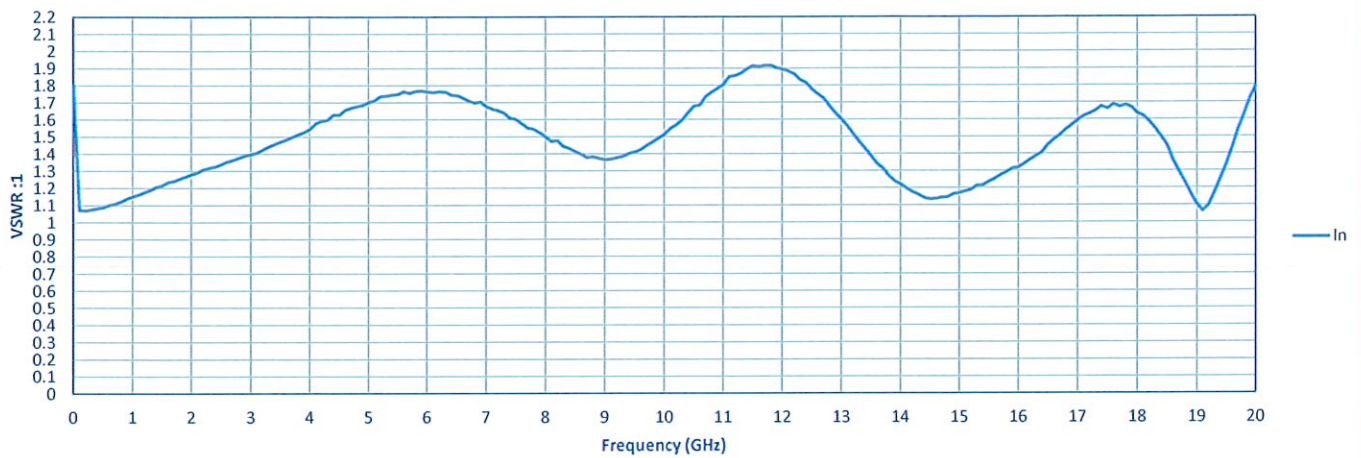


## Noise Figure

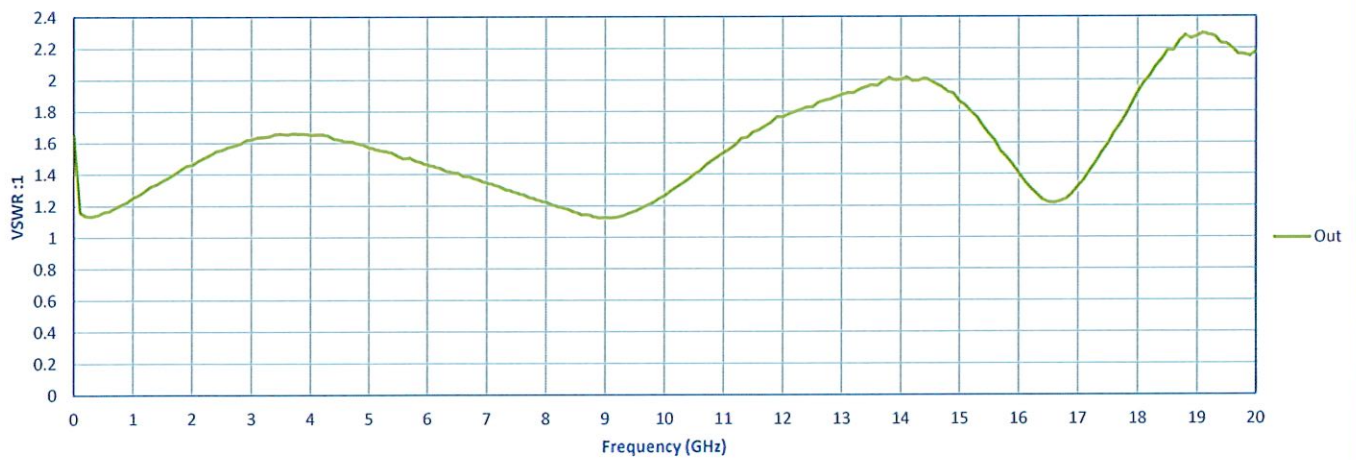


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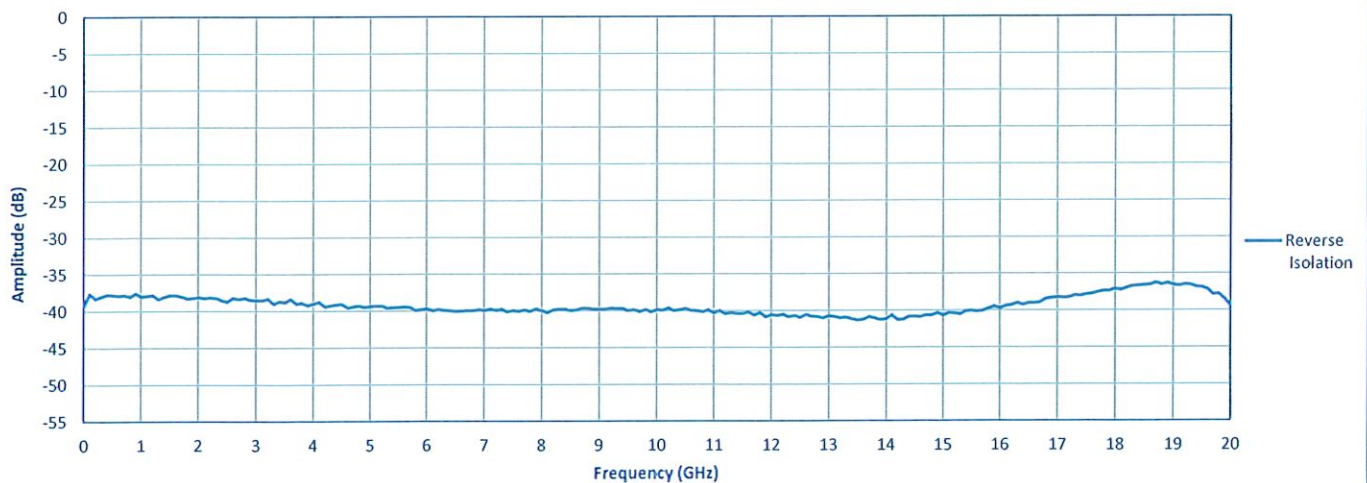
## Input VSWR



## Output VSWR



## Reverse Isolation



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