



**SUMMARY TEST DATA  
ON  
PE2-26-2G18G-5-21-12-SFF-DP**

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: PE2-26-2G18G-5-21-12-SFF-DP  
 Serial No: PL22566/1818

Tested By: K. Mansfield  
 Temperatures: -55°C, +25°C, +85°C  
 Date: 5/2/2018  
 Drawing No: 27633170 Rev: B2

| Test Item | Parameters                 | Specified Value   | Results           |                  |                   | Pass/Fail         | QA QC       |
|-----------|----------------------------|---|-------------------|------------------|-------------------|-------------------|-------------|
|           |                            |   | -55°C             | +25°C            | +85°C             |                   |             |
| 1         | Frequency Range:           | 2.0 to 18.0 GHz   | 2.0 to 18.0 GHz   |                  |                   | Pass<br>See Plots | PMI<br>QA 2 |
| 2         | Nominal Gain:*             | 26 dB   | 26.1 dB           | 26.6 dB          | 25.6 dB           | Pass<br>See Plot  |             |
| 3         | Gain Window:               | ±4.0 dB (22 dB Min. / 30 dB Max.)<br>(Relative to Nominal Gain) | 0.6 dB<br>-0.4 dB | 1 dB<br>0.1 dB   | 0.1 dB<br>-0.9 dB | Pass<br>See Plot  |             |
| 4         | Gain Flatness:*            | ±1.5 dB<br>(Relative to Nominal Gain)                           | ±0.5 dB           | ±0.5 dB          | ±0.5 dB           | Pass<br>See Plot  |             |
| 5         | Noise Figure: <sup>2</sup> | 5.0 dB Max.   | 3.8 dB            | 4.6 dB           | 4.9 dB            | Pass<br>See Plot  |             |
| 6         | OP1dB: <sup>2</sup>        | +21 dBm Min.<br>+25 dBm Goal                                    | 24.5 dBm          | 23.6 dBm         | 22.7 dBm          | Pass<br>See Plot  |             |
| 7         | OIP2: <sup>3</sup>         | +37 dBm Min.  |                   | 40.3 dBm         |                   | Pass<br>See Table |             |
| 8         | OIP3: <sup>3</sup>         | +30 dBm Min.  |                   | 31.4 dBm         |                   | Pass<br>See Table |             |
| 9         | Input VSWR:*               | 2.0:1 Max.  |                   | 1.3:1            |                   | Pass<br>See Plot  |             |
| 10        | Output VSWR:*              | 2.0:1 Max. (2.0 to 15.0 GHz)                                    |                   | 1.8:1            |                   | Pass<br>See Plot  |             |
|           |                            | 2.8:1 Max. (15.0 to 18.0 GHz)                                   | 2.4:1             | Pass<br>See Plot |                   |                   |             |
| 11        | DC Supply:                 | +11 to +12.5 VDC @<br>400 mA Goal, 450 mA Max.                  | 364 mA            | 394 mA           | 409 mA            | Pass              | PMI<br>QA 2 |

\* Gain and Gain Flatness shall be measured with 100 MHz steps (201 Points Minimum)

<sup>2</sup> Noise Figure and OP1dB shall be measured with 1 GHz steps

<sup>3</sup> OIP2 and OIP3 shall be measured with 2 GHz steps

Capture all S-parameters (S11, S22, S12, S21) over all the specified frequencies and temperatures & round to one decimal digit on summary table above.

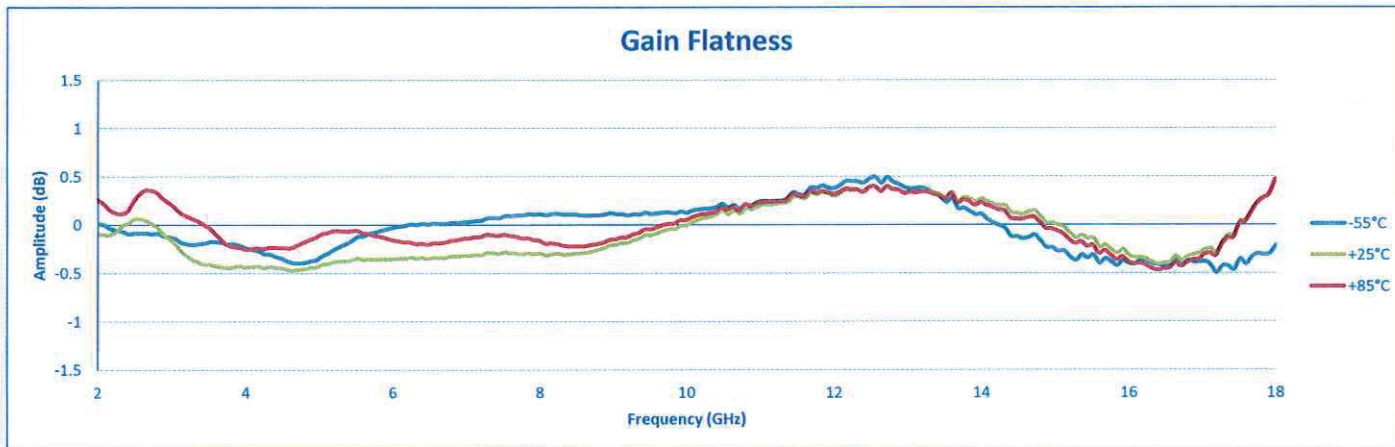
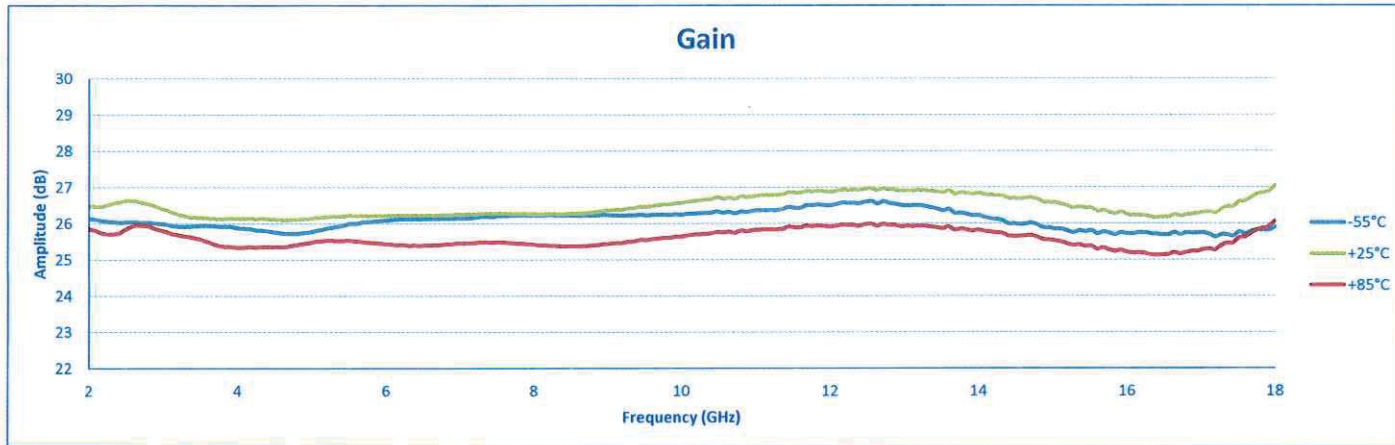
QA/QC Approval:  PMI  
QA 2 Date: 5/3/18

7311-F Grove Road, Frederick, MD 21704 USA  
 Phone: (301) 662-1731  
 Email: sales@pmi-rf.com



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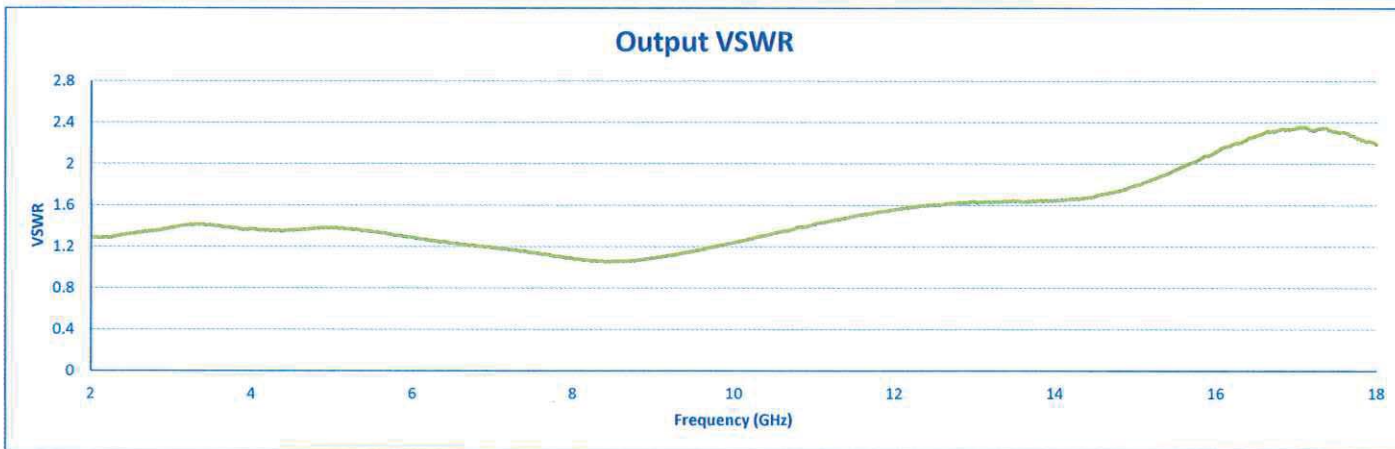
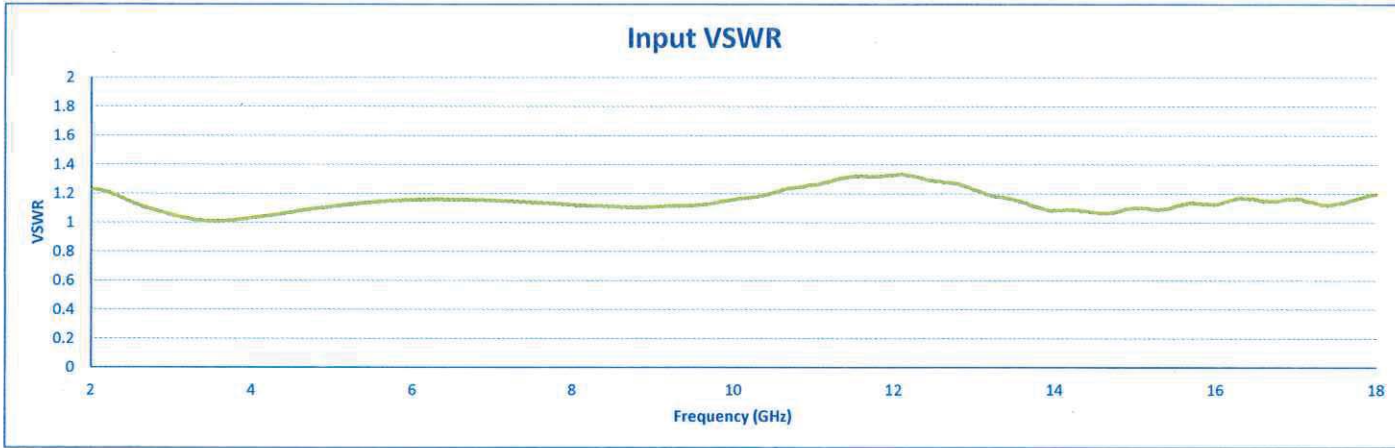


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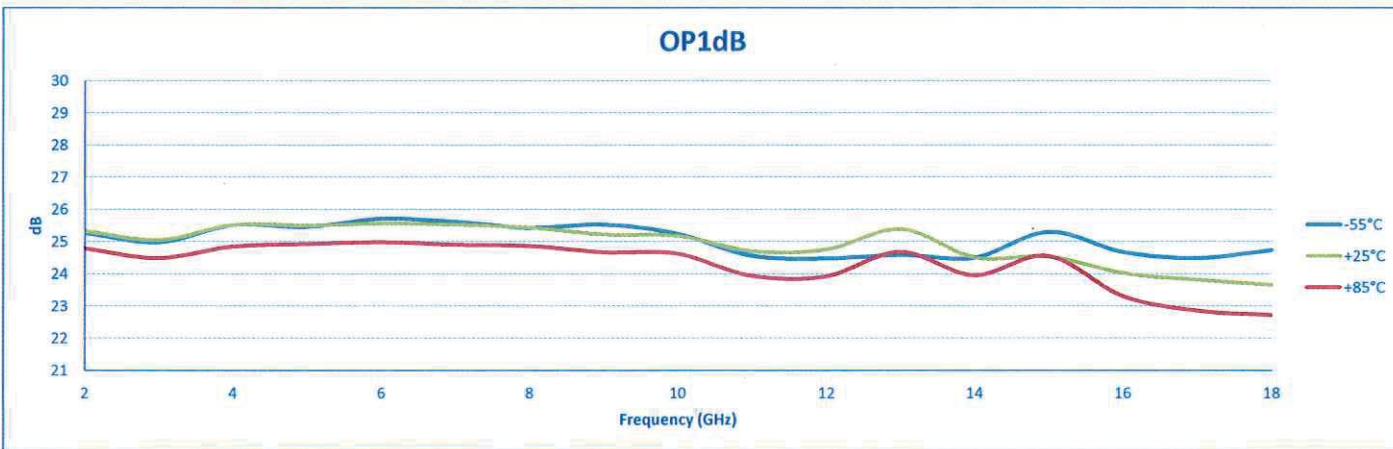
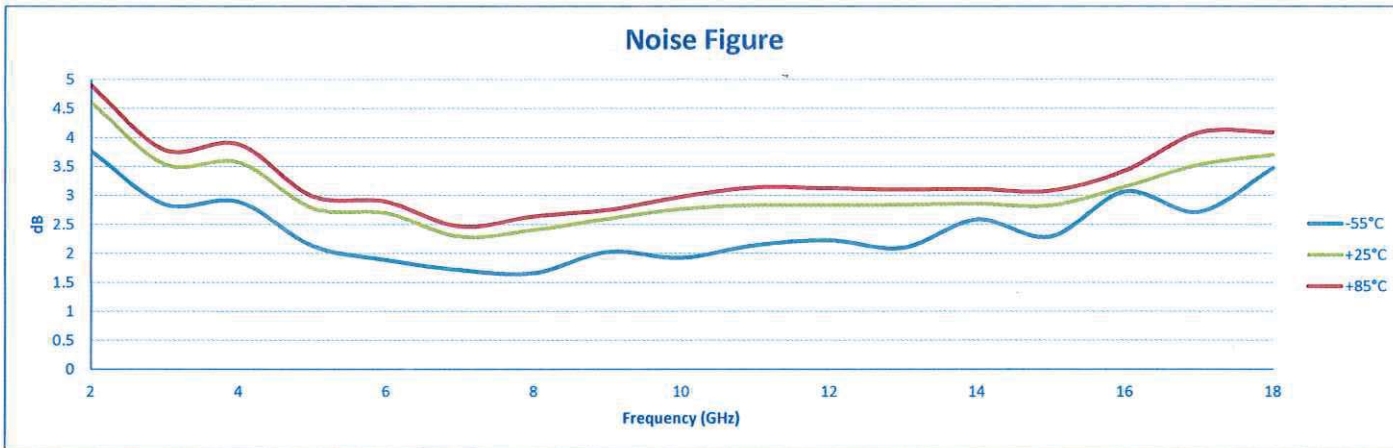


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| <u>Freq</u><br>(GHz) | <u>IP3</u><br>(dBm) | <u>IP2</u><br>(dBm) |
|----------------------|---------------------|---------------------|
| 2                    | 38.5                | 41.8                |
| 4                    | 38.2                | 46                  |
| 6                    | 37.1                | 45.5                |
| 8                    | 34.2                | 40.3                |
| 10                   | 33.5                | 49                  |
| 12                   | 33                  | 51                  |
| 14                   | 31.4                | 50.8                |
| 16                   | 32.7                | 50                  |
| 18                   | 33                  | 50.9                |

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