



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

PL32036/2116

Customer: _____
 SO No: _____
 Model No: PE2-26-2G18G-5-21-12-SFF-DP
 Serial No: PL32036/2116

Tested By: EA Valdez
 Temperature: -55°C, +25°C, +85°C
 Date: 04/28/2021
 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 | PMI QA3 |
| 2 | Nominal Gain* | 26 dB | 25.9 dB | 24.8 dB | 24.6 dB | Pass | |
| 3 | Gain Window | ±4.0 dB (22 dB Min / 30 dB Max) (Relative to Nominal Gain) | Pass | Pass | Pass | Pass | |
| 4 | Gain Flatness* | ±1.5 dB (Relative to Nominal Gain) | ±0.5 dB | ±0.8 dB | ±0.8 dB | Pass | |
| 5 | Noise Figure ² | 5.0 dB Max | 3.2 dB | 4.0 dB | 4.2 dB | Pass | |
| 6 | OP1dB ² | +21 dBm Min +25 dBm Goal | 23.1 dBm | 23.2 dBm | 22.1 dBm | Pass | |
| 7 | OIP2 ³ | +37 dBm Min | [REDACTED] | 45.6 dBm | [REDACTED] | Pass | |
| 8 | OIP3 ³ | +30 dBm Min | | 36.3 dBm | | Pass | |
| 9 | Input VSWR* | 2.0:1 Max | | 1.4:1 | | Pass | |
| 10 | Output VSWR* | 2.0:1 Max (2.0 to 15.0 GHz) | 1.8:1 | Pass | | | |
| | | 2.8:1 Max (15.0 to 18.0 GHz) | 2.8:1 | Pass | | | |
| 11 | DC Supply | +11 to +12.5 VDC @ 400 mA Goal, 450 mA Max | 390 mA | 410 mA | 430 mA | Pass | PMI QA3 |

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

² Noise Figure and OP1dB shall be measured with 1 GHz steps

³ OIP2 and OIP3 shall be measured with 2 GHz steps

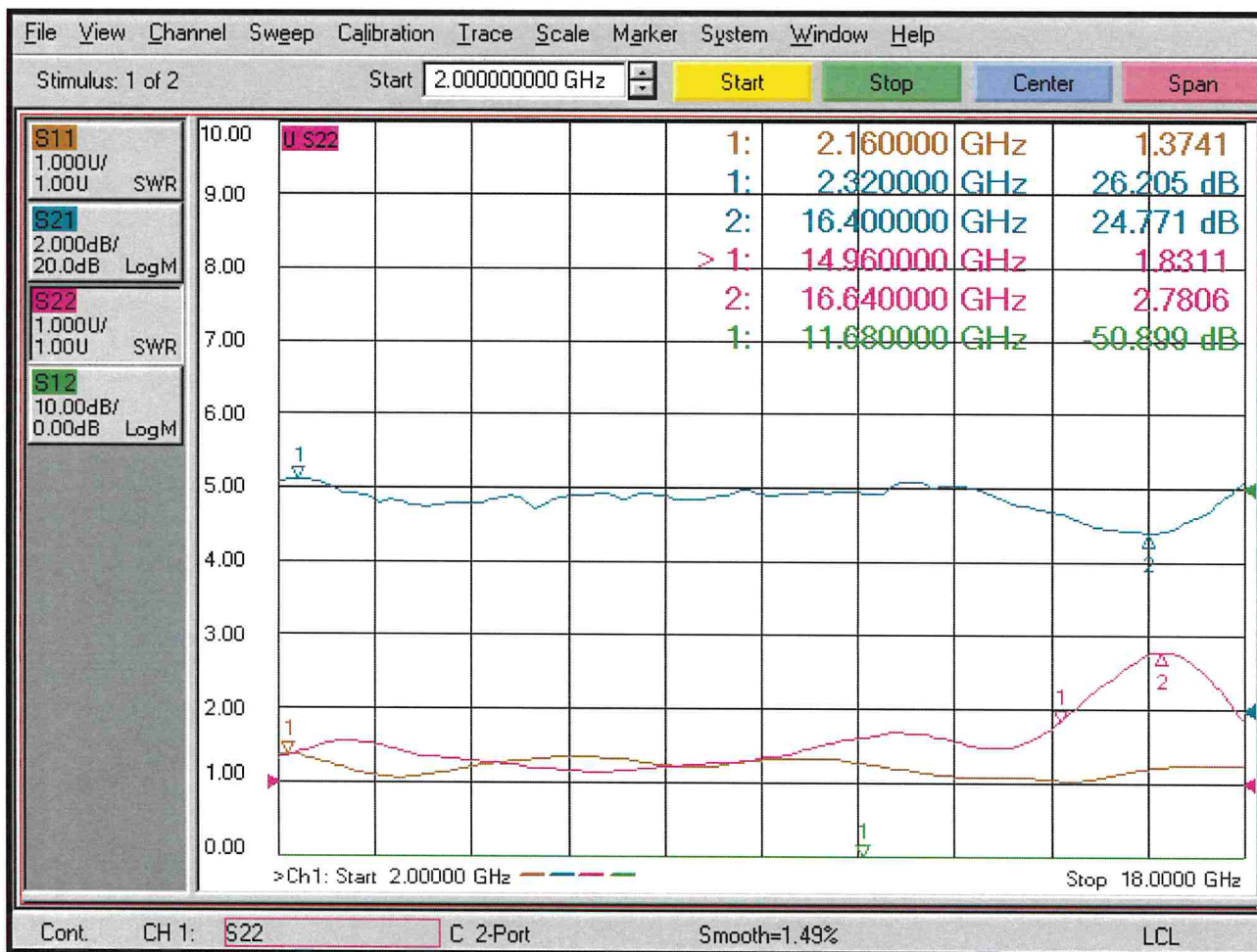
QA/QC Approval: *A Zimmerman* Date: 4-29-2021



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GAIN / VSWR @ +25C



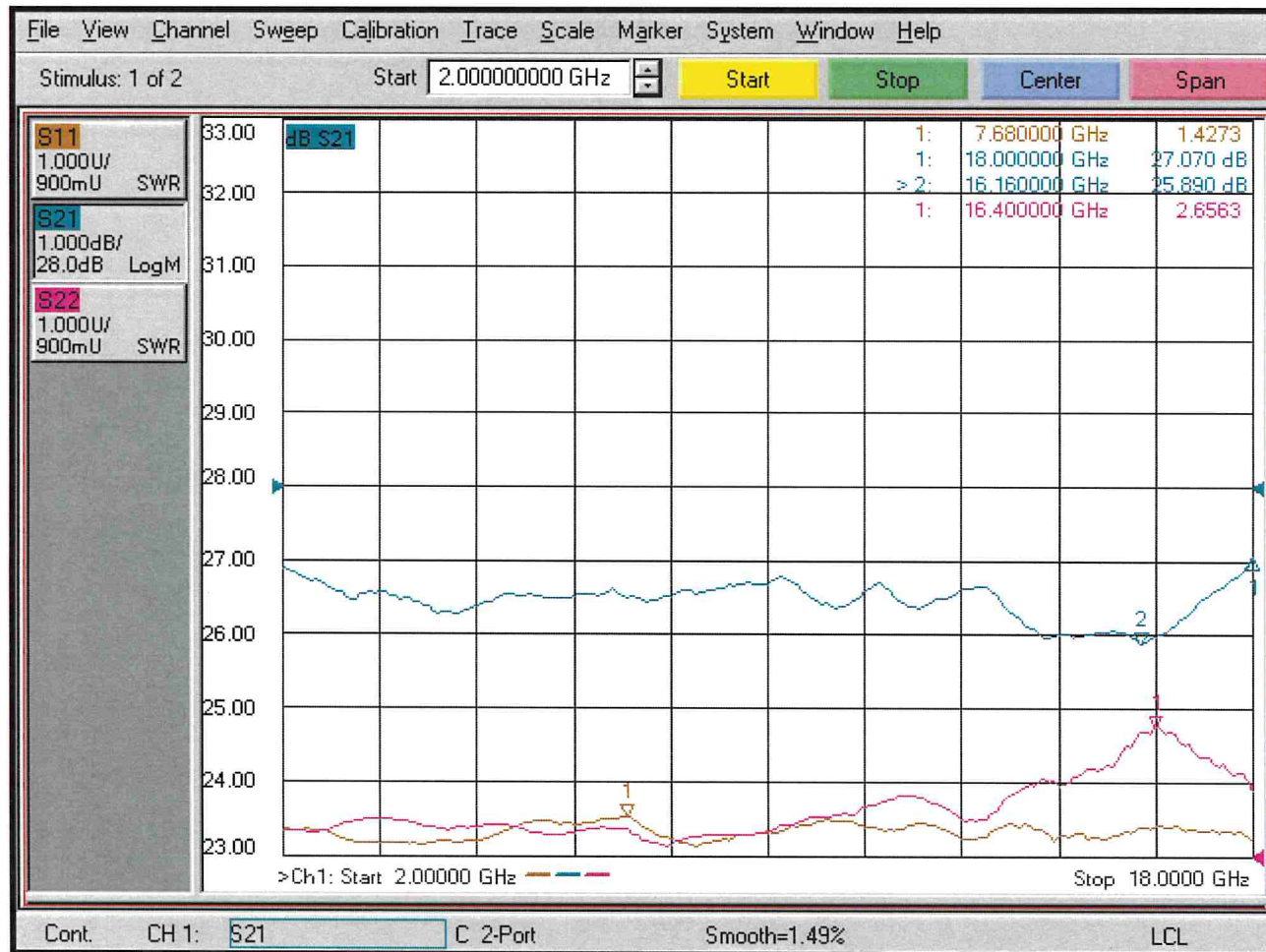
7311-F Grove Road, Frederick, MD 21704 USA
Phone: (301) 662-5019 Fax: (301) 662-1731
Email: sales@pmi-rf.com



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GAIN @ -55C



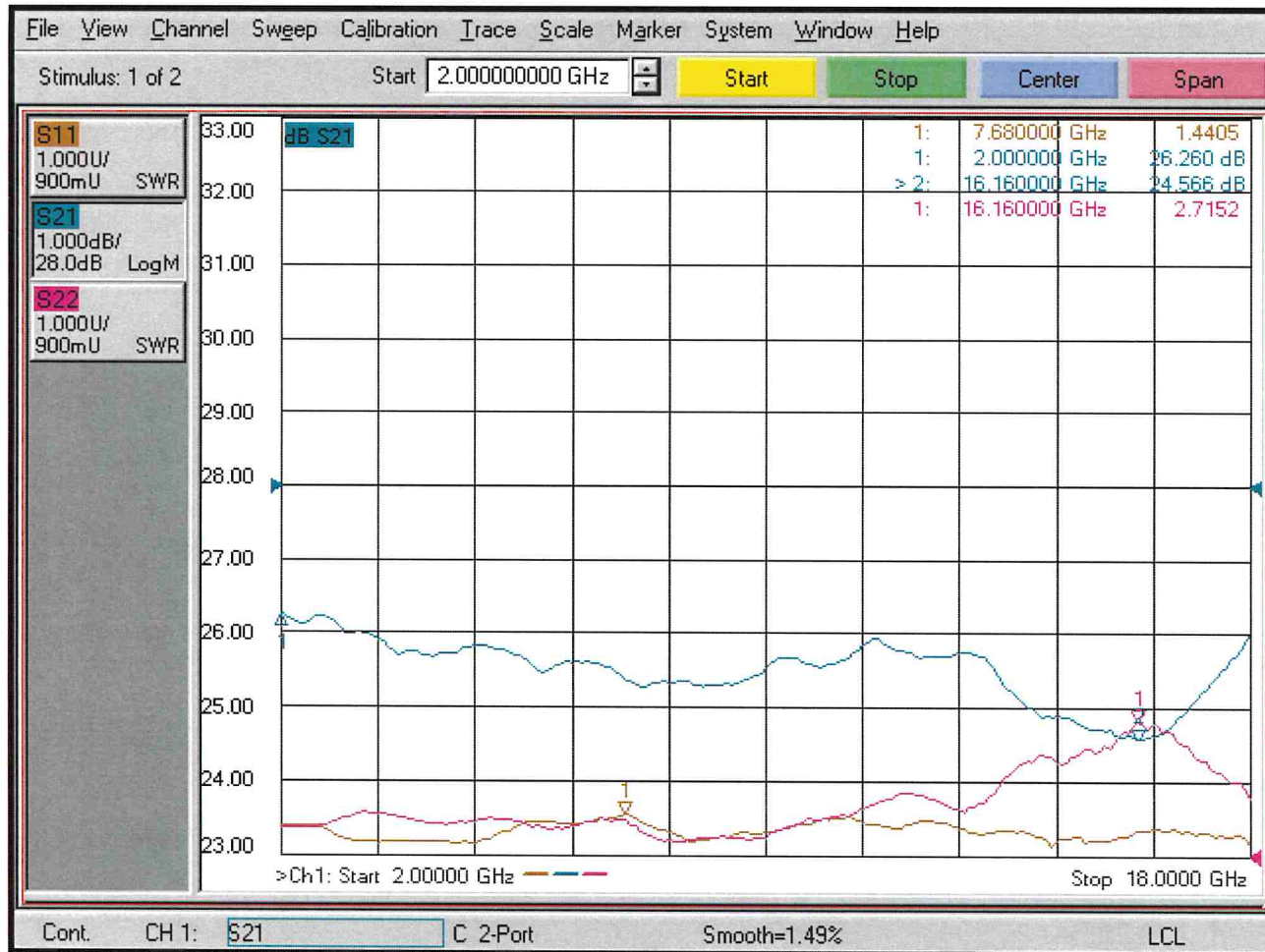
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SUMMARY TEST DATA ON PE2-26-2G18G-5-21-12-SFF-DP

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GAIN @ +85C



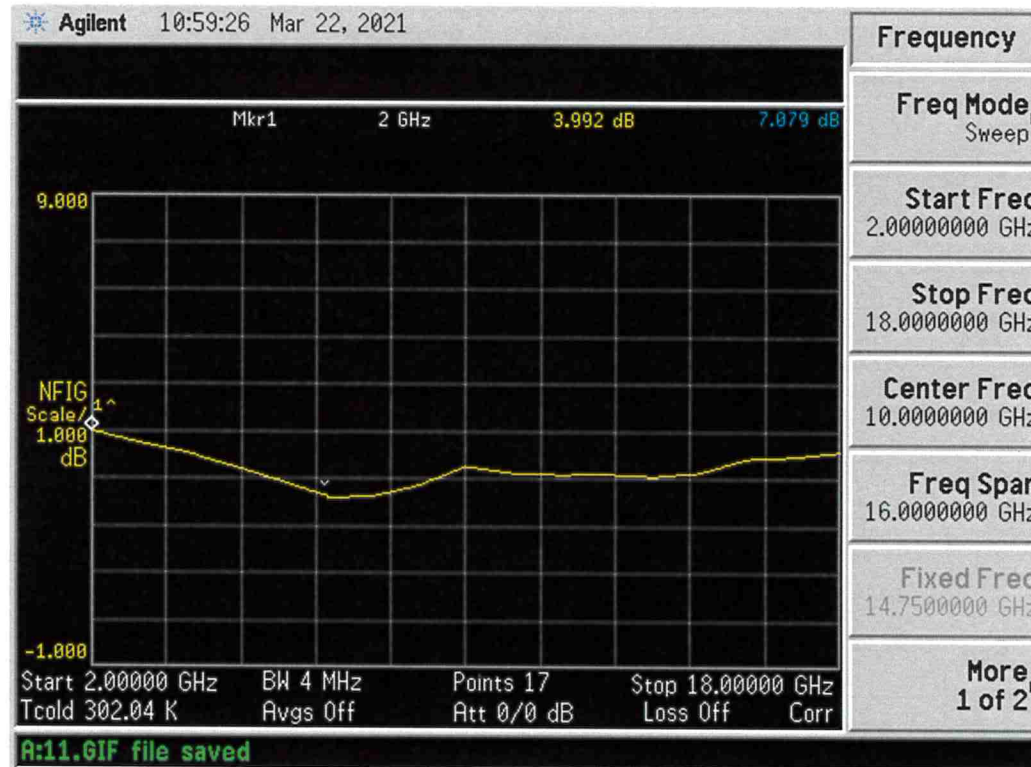
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NOISE FIGURE @ +25C



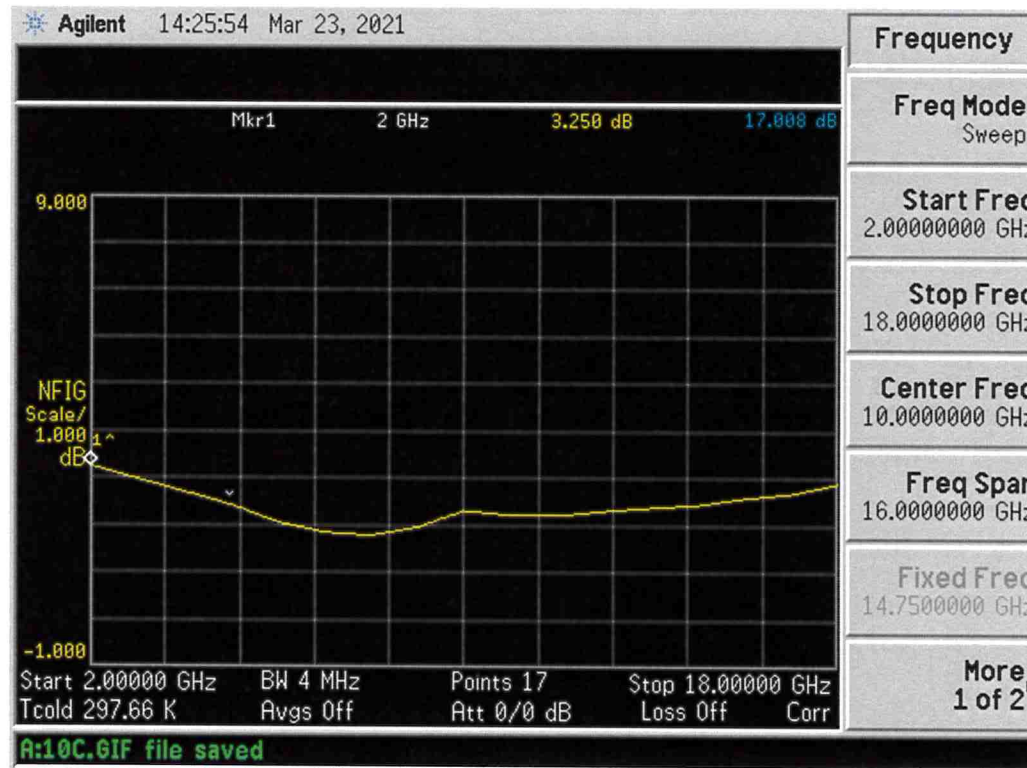
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NOISE FIGURE @ -55C



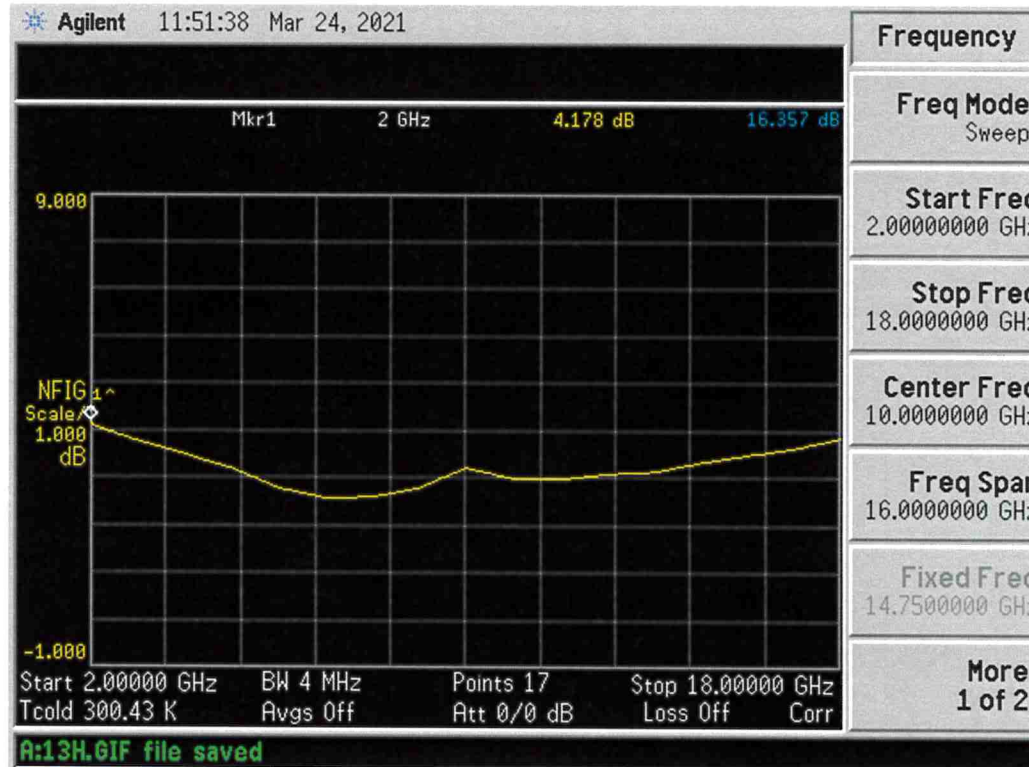
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NOISE FIGURE @ +85C



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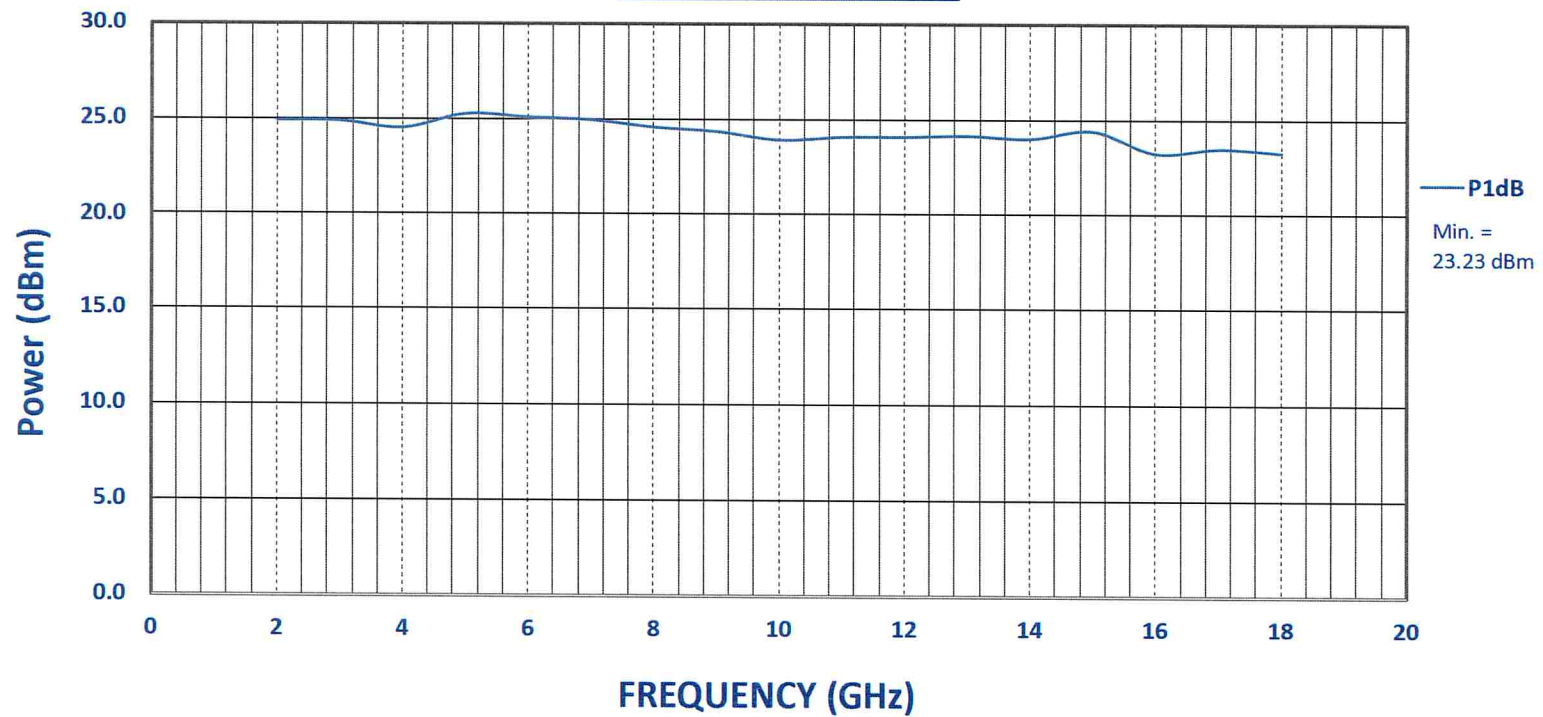


SUMMARY TEST DATA ON PE2-26-2G18G-5-21-12-SFF-DP

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P1db @ +25C

P1dB Vs Frequency



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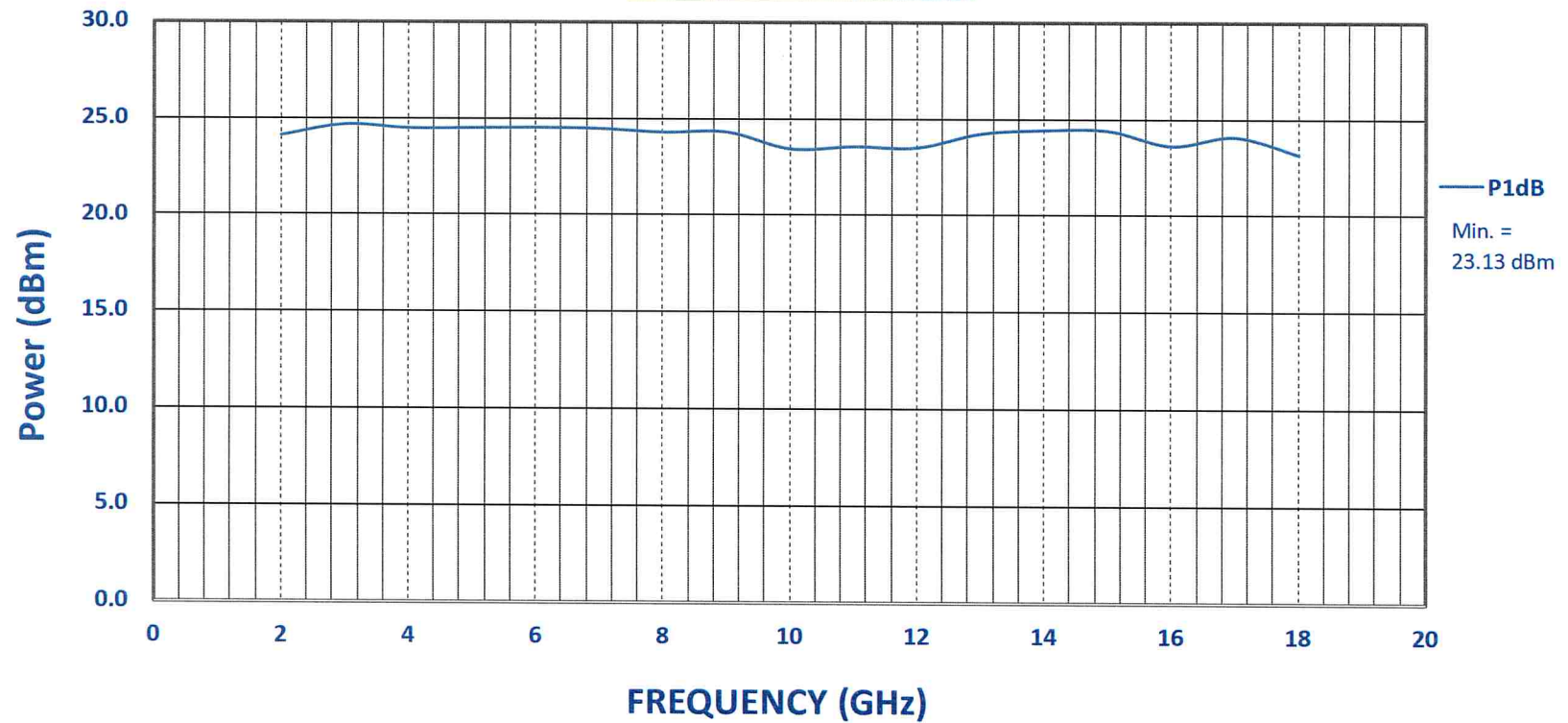


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P1db @ -55C

P1dB Vs Frequency



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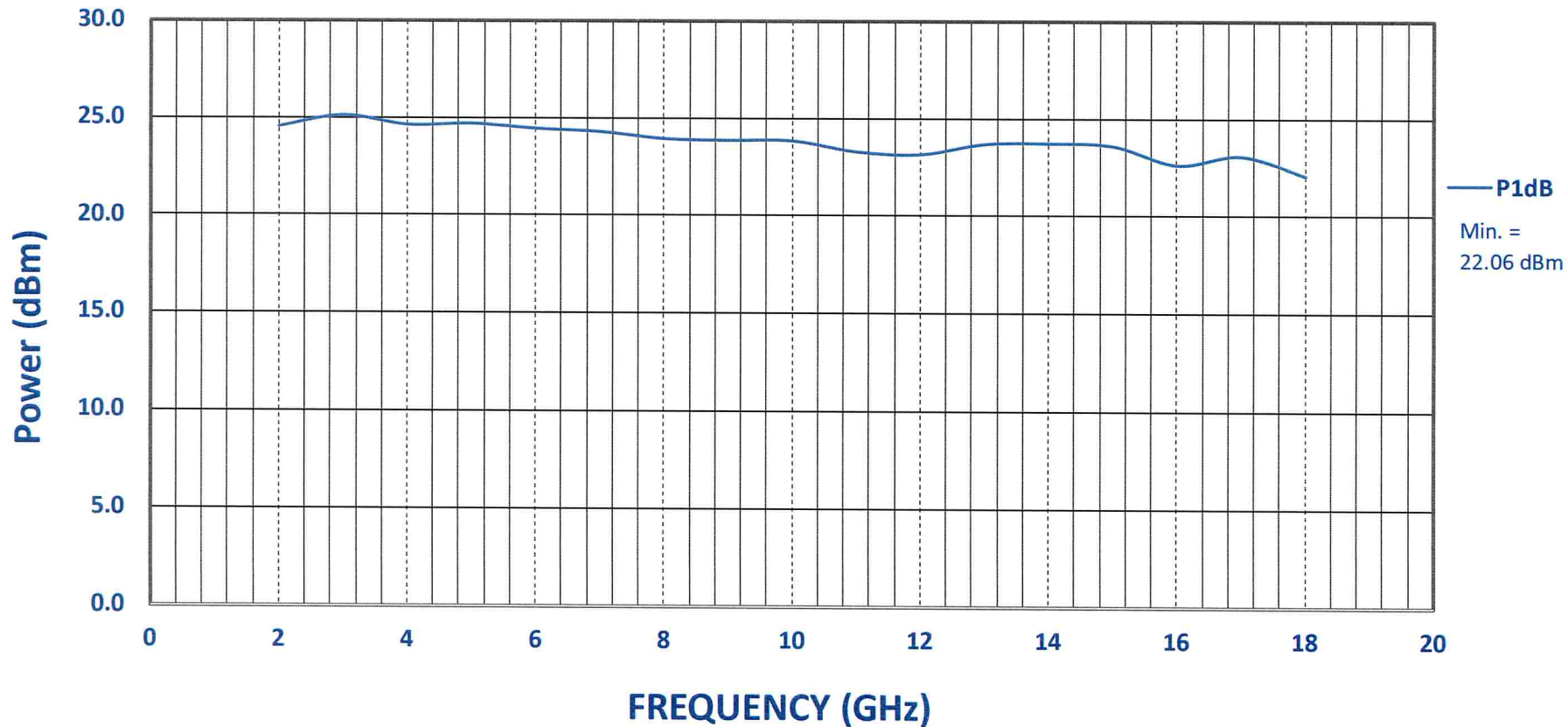


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P1db @ +85C

P1dB Vs Frequency



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| <u>Freq</u> | <u>IP3</u> | <u>IP2</u> |
|-------------|------------|------------|
| 2000 | 42.655 | 69.67 |
| 4000 | 41.82 | 63.67 |
| 6000 | 42.54 | 64.99 |
| 8000 | 41.46 | 62.5 |
| 10000 | 40.145 | 52.51 |
| 12000 | 39.185 | 45.67 |
| 14000 | 37.77 | 47.34 |
| 16000 | 38.21 | 47.49 |
| 18000 | 36.31 | 50.51 |

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