



**TYPICAL CHARACTERISTICS
ON
PE2-32-218-3R5-8-15-SFF**

PMI MODEL NUMBER PE2-32-218-3R5-8-15-SFF IS A 2 TO 18 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.



TESTED AND REPORTED BY
Engineering PMI

TESTED AND REPORTED BY
V. Vasquez

DATE
June 8, 2026

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Email: sales@pmi-rf.com



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Outline Drawing

DESCRIPTION:

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| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
|------|------|------------------|-----------|----------|
| | A1 | ORIGINAL RELEASE | 8/18/2008 | |
| | B1 | ECN # 26-0088 | 4/29/2008 | |
| | B2 | ECN # 26-0125 | 8/06/2008 | |

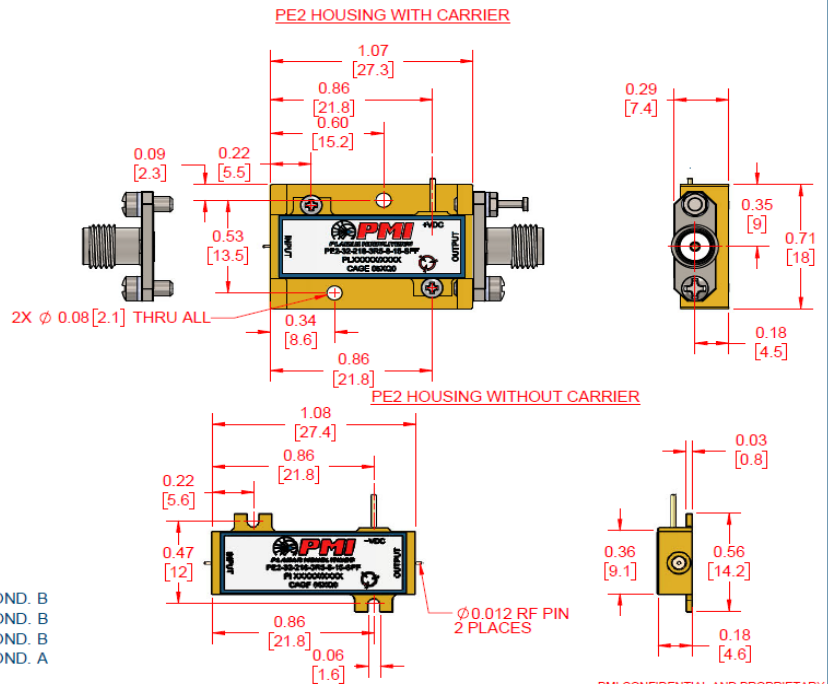
SPECIFICATIONS:

- FREQUENCY RANGE:..... 2 TO 18 GHz
- GAIN:..... 32 dB MIN
- GAIN FLATNESS:..... ±2 dB MAX
- NOISE FIGURE:..... 3.5 dB MAX
- OP1dB:..... 8 dBm MIN
- VSWR (INPUT/OUTPUT):..... 2:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... 250 mA MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -25°C TO +85°C (OPERATING)
..... -55°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103 COND. B
- SHOCK:..... MIL-STD-202, METHOD 213 COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107 COND. A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



PMI CONFIDENTIAL AND PROPRIETARY

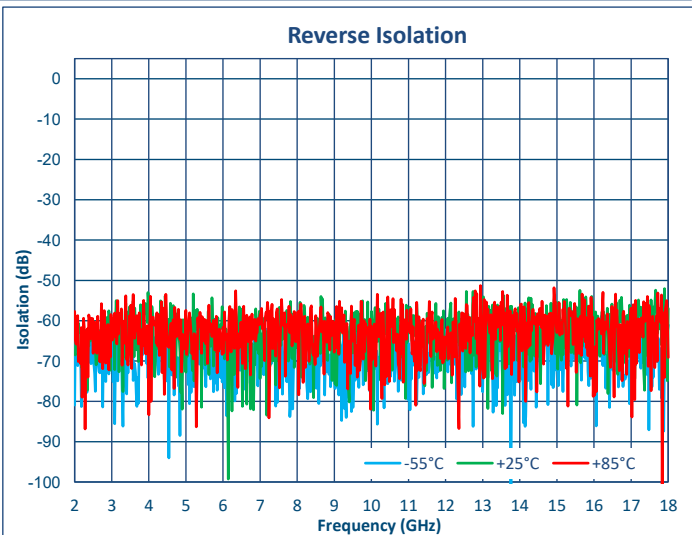
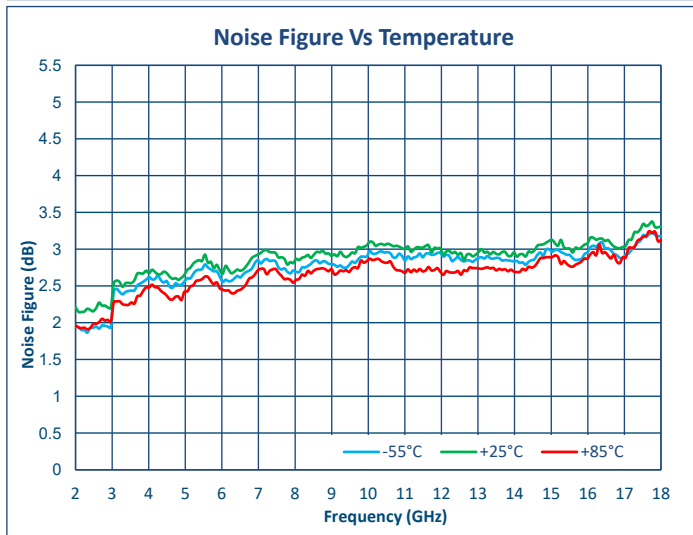
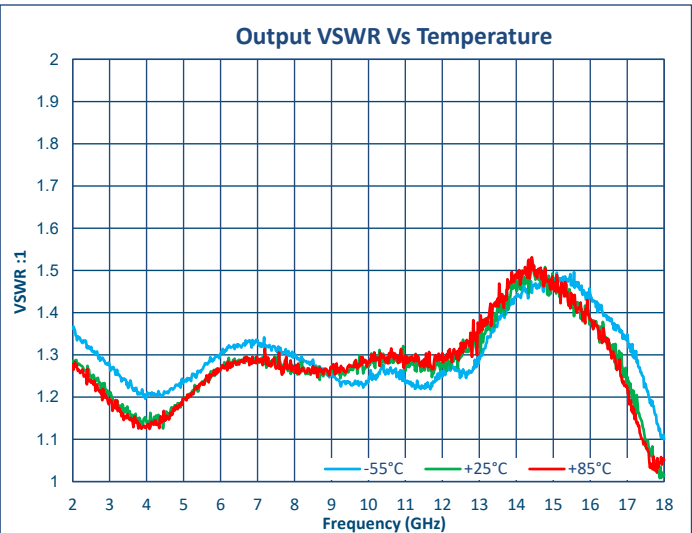
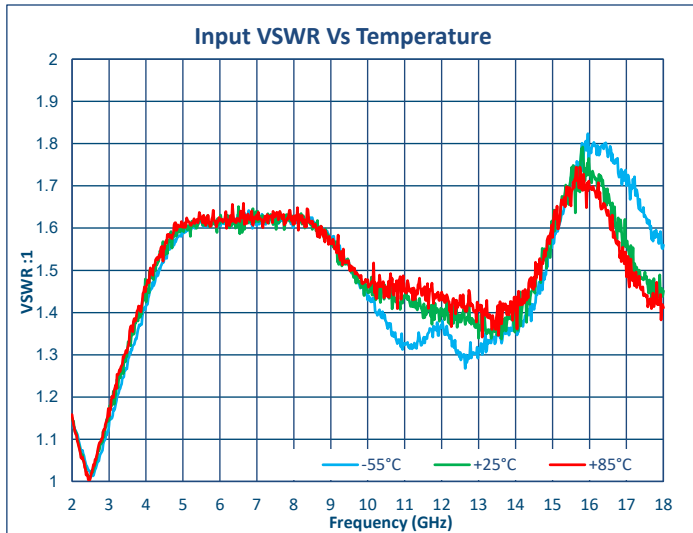
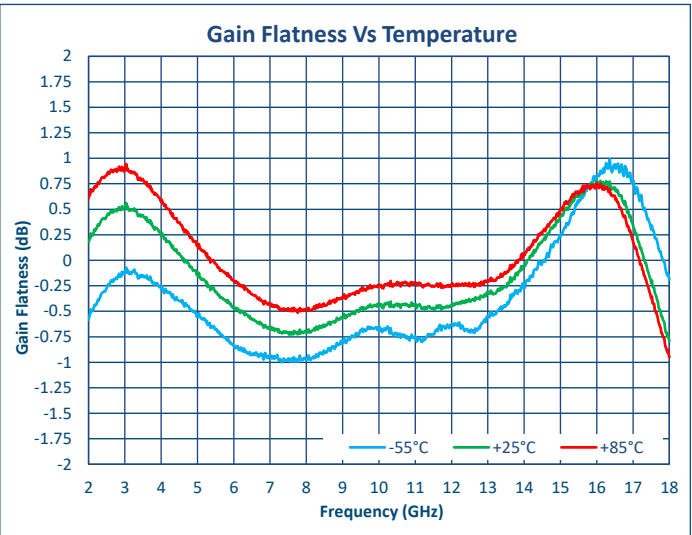
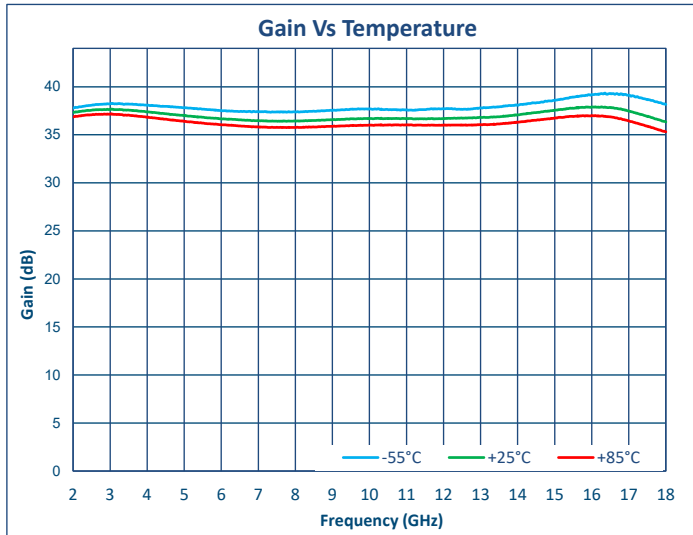
| APPROVALS | | DATE | TITLE | | REV. |
|-----------|------------|-----------|-------------------------|--------------|----------|
| DRAWN | DPD | 8/18/2008 | OUTLINE | | |
| DESIGNED | D. HOSCHAR | 4/29/2008 | PE2-32-218-3R5-8-15-SFF | | B2 |
| TESTED | | | SHEET | FROM NO. | DWG NO. |
| | | | B | 05XQD | 27010141 |
| | | | SCALE | SHEET 1 OF 1 | |
| | | | 2:1 | | |



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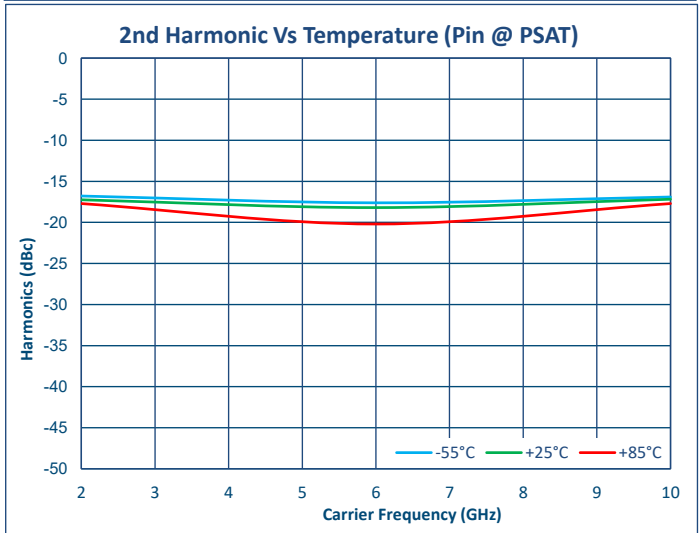
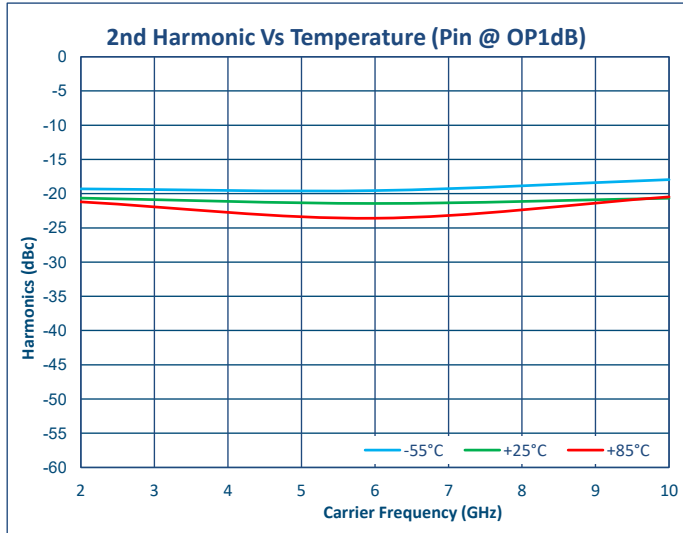
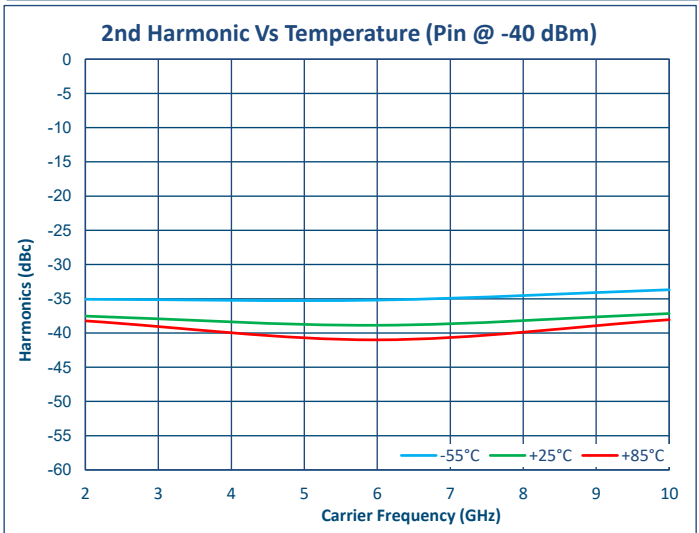
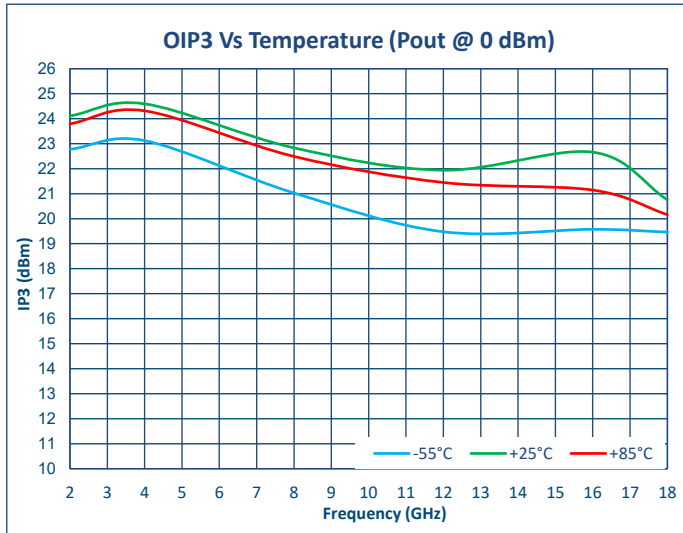
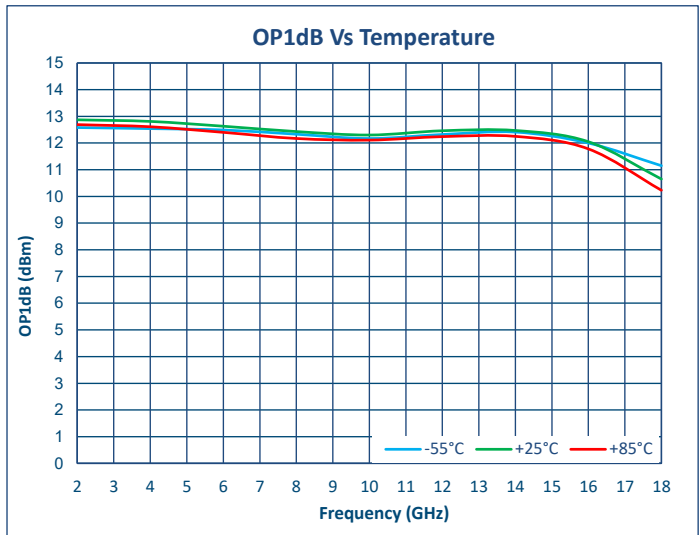
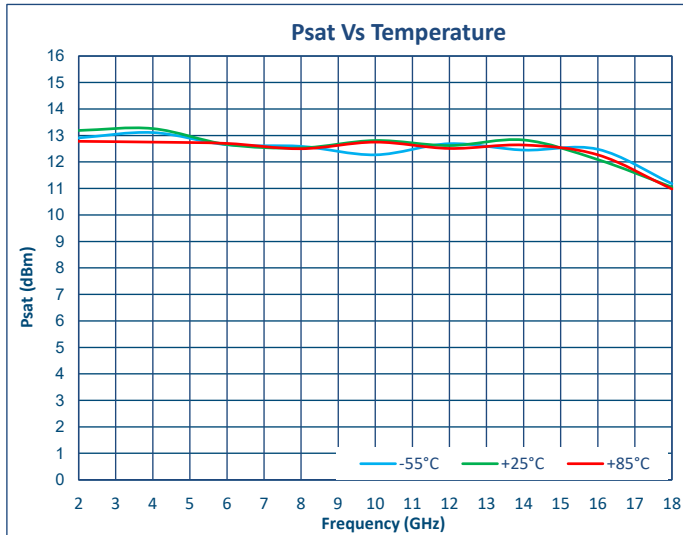
Technical Specifications

| TEST ITEM NO. | PARAMETERS | SPECIFIED VALUE | Test Results | | |
|---------------|--------------------|-----------------------------|--|--|--|
| | | | -55°C | +25°C | +85°C |
| 1 | Frequency Range: | 2 GHz to 18 GHz | 2 GHz to 18 GHz | 2 GHz to 18 GHz | 2 GHz to 18 GHz |
| 2 | Gain: | 32.0 dB Min | +37.4 dB Min. | +36.4 dB Min. | +35.3 dB Min. |
| | | | +39.4 dB Max. | +37.9 dB Max. | +37.2 dB Max. |
| | | | See Graph | See Graph | See Graph |
| 3 | Gain Flatness: | ±2 dB Max | ± 0.99 dB See Graph | ± 0.79 dB See Graph | ± 0.95 dB See Graph |
| 4 | Noise Figure: | 3.5 dB Max | 3.2 dB See Graph | 3.4 dB See Graph | 3.3 dB See Graph |
| 5 | OP1dB: | 8.0 dBm Min | +11.2 dBm See Graph | +10.7 dBm See Graph | +10.2 dBm See Graph |
| 6 | Psat: | 11.0 dBm Min | +11.2 dBm | +11.1 dBm | +11 dBm |
| 7 | Harmonics: | Not Specified | 2nd Harm: -33.7 dBc 3rd Harm: -46.1 dBc Pin @ -40dBm | 2nd Harm: -37.2 dBc 3rd Harm: -50.7 dBc Pin @ -40dBm | 2nd Harm: -38.1 dBc 3rd Harm: -66.5 dBc Pin @ -40dBm |
| | | | 2nd Harm: -18 dBc 3rd Harm: -24.5 dBc Pin @ P1dB | 2nd Harm: -20.7 dBc 3rd Harm: -29.5 dBc Pin @ P1dB | 2nd Harm: -20.5 dBc 3rd Harm: -31.1 dBc Pin @ P1dB |
| | | | 2nd Harm: -16.8 dBc 3rd Harm: -18 dBc Pin @ PSAT | 2nd Harm: -17.2 dBc 3rd Harm: -20.2 dBc Pin @ PSAT | 2nd Harm: -17.7 dBc 3rd Harm: -21.2 dBc Pin @ PSAT |
| 8 | OIP3: | Not Specified | +19.5 dBm See Graph | +20.8 dBm See Graph | +20.2 dBm See Graph |
| 9 | Max RF Input Power | Not Specified | +36.2 dBm | +38.24 dBm | +34.66 dBm |
| 10 | VSWR In: | 2.0 :1 Max | 1.8 :1 See Graph | 1.8 :1 See Graph | 1.7 :1 See Graph |
| 11 | VSWR Out: | 2.0 :1 Max | 1.5 :1 See Graph | 1.5 :1 See Graph | 1.5 :1 See Graph |
| 12 | DC Supply: | +12V to +15V @250 mA Max | +12 to +15 VDC @ 198 mA | +12 to +15 VDC @ 209 mA | +12 to +15 VDC @ 211 mA |
| 13 | DC Supply: | +12V to +15V (Psat) | +12 to +15 VDC @ 200 mA | +12 to +15 VDC @ 213 mA | +12 to +15 VDC @ 220 mA |





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