

**TYPICAL CHARACTERISTICS
ON
PE2-15-5R06R0-3R5-21-12-SFF**

PMI MODEL NUMBER PE2-15-5R06R0-3R5-21-12-SFF IS A 5 TO 6 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



**REPORTED BY:
S. LANGE**

**TESTED BY:
K. MANSFIELD**

**DATE
October 6, 2025**

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Outline Drawing

DESCRIPTION:

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SPECIFICATIONS:

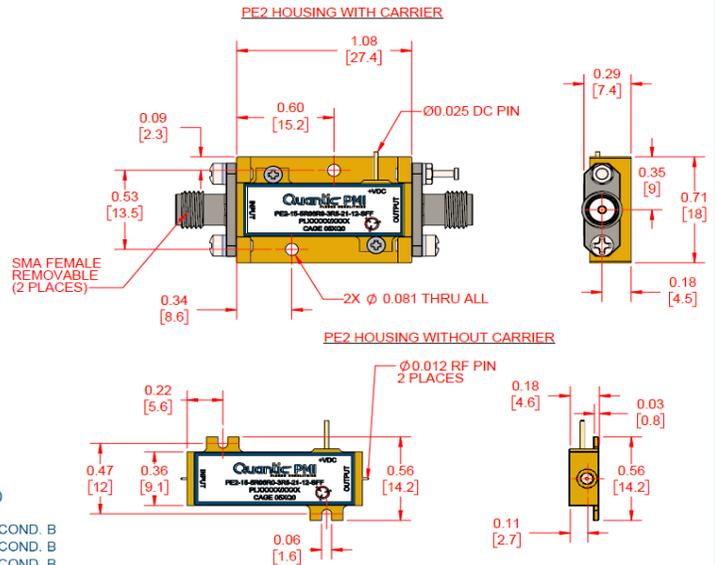
- FREQUENCY RANGE:..... 5 TO 6 GHz
- GAIN:..... 15 dB TYP
- GAIN FLATNESS:..... ±0.5 dB MAX
- NOISE FIGURE:..... 3.5 dB TYP
- OP1dB:..... 19 dBm MIN
- VSWR (INPUT/OUTPUT):..... 2.0:1 MAX
- INPUT POWER:..... 23 dBm MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... 250 mA MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

ENVIRONMENTAL RATINGS:

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

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/14/2008	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGN	S. LANGE	7/14/2008	OUTLINE	
DRAWN	B		REV	A1
DATE			TRG NO.	27052380
SCALE	2:1			

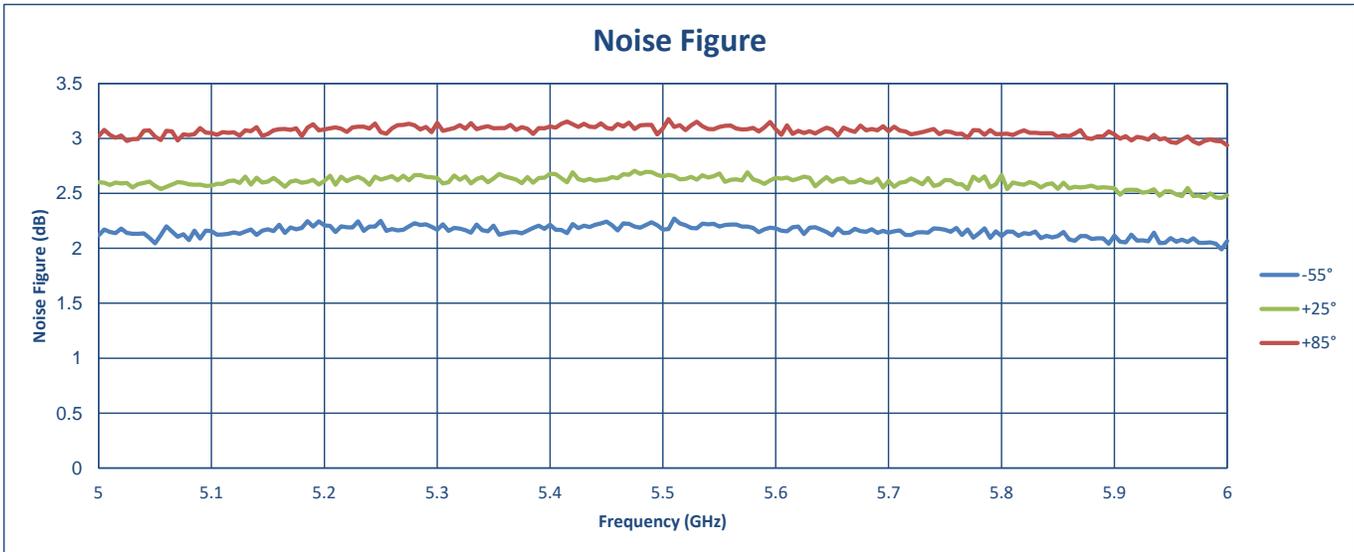
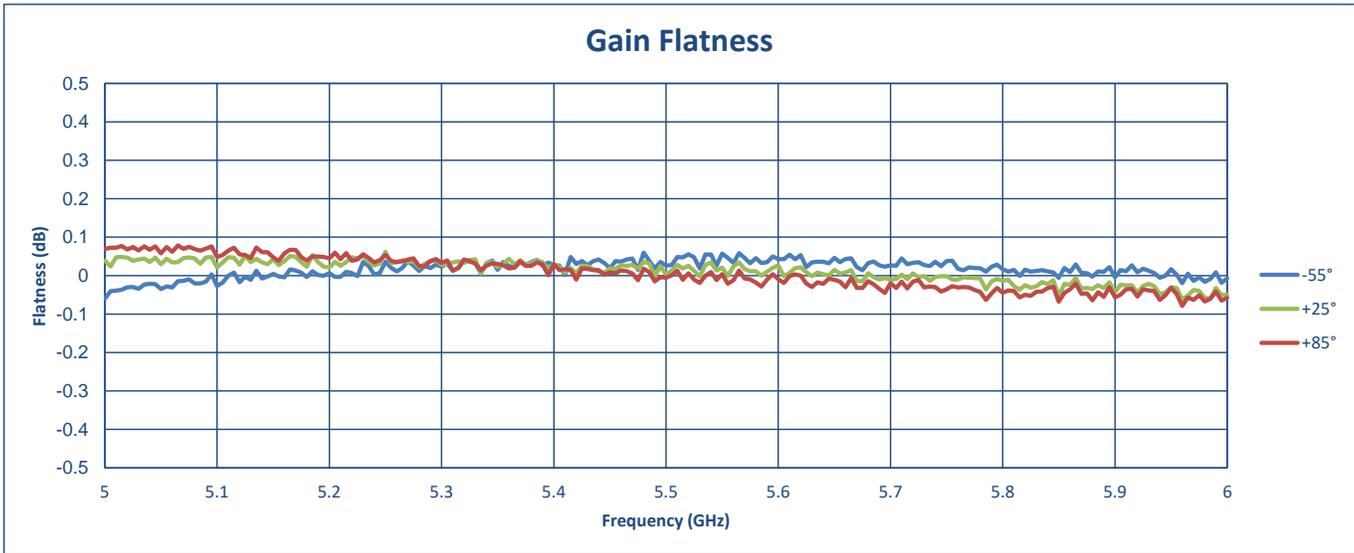
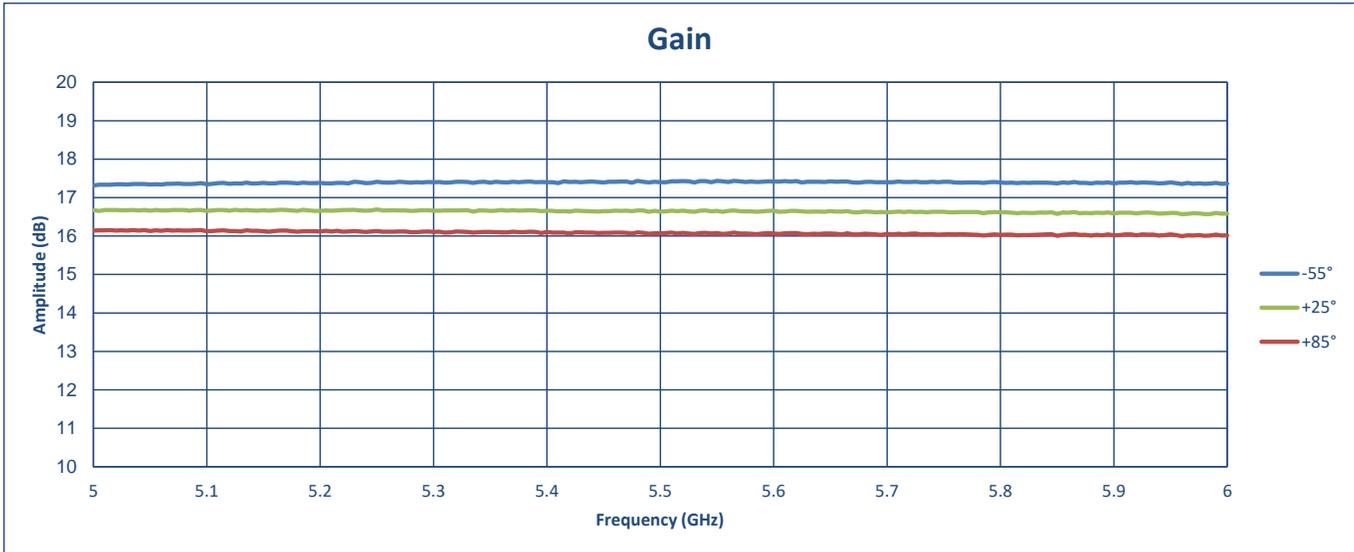
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Test Data

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			-55° C	+25° C	+85° C
1	Frequency Range:	5 TO 6 GHz	5 TO 6 GHz		
2	Gain:	15 dB TYP	+17.4 dB +17.3 dB	+16.7 dB +16.6 dB	+16.2 dB +16 dB
3	Gain Flatness:	±0.5 dB MAX	±0.06 dB	±0.06 dB	±0.08 dB
4	Noise Figure:	3.5 dB TYP	2.27 dB	2.71 dB	3.18 dB
5	OP1dB:	19 dBm MIN	+22.1 dBm	+24.1 dBm	+23.6 dBm
6	VSWR: (In/Out)	2.0:1 MAX	1.35:1	1.36:1	1.38:1
7	Input Power:	23 dBm MAX	23 dBm		
8	DC Supply:	+12 TO +15 VDC	+12 TO +15 VDC		
9	DC Current:	250 mA MAX	192 mA	216 mA	226 mA

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