



**TYPICAL CHARACTERISTICS
ON
PEC-100M18-30-4D5-20-15-SFF**

**PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER PEC-100M18-30-4D5-20-15-SFF
IS A LIMITING AMPLIFIER COVERING THE RF RANGE OF 0.1 TO 18 GHz**



12/21/2021
Tested By: Hugo Gonzales
Reported By: Hugo Gonzales



TYPICAL CHARACTERISTICS ON PEC-100M18-30-4D5-20-15-SFF

Technical Sheet

DESCRIPTION:

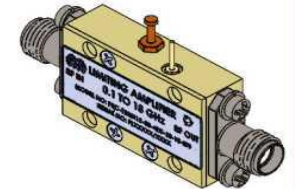
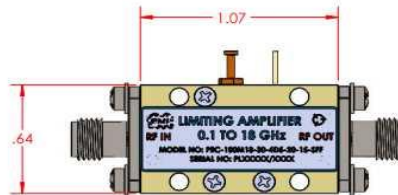
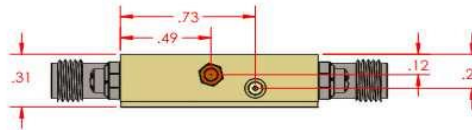
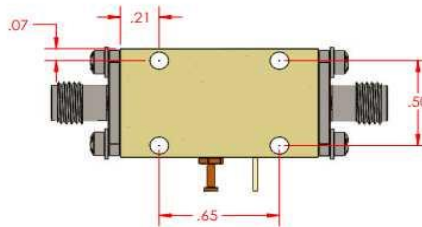
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SPECIFICATIONS AT 23 °C:

- FREQUENCY:.....0.1 TO 18 GHz
- GAIN:.....30 dB MIN.
- GAIN FLATNESS:.....2 dB+/- MAX
- NOISE FIGURE:.....4.5 dB MAX(not guaranteed below 700 MHz)
- VSWR IN:.....2.4:1 MAX
- VSWR OUT:.....2.3:1 MAX
- P1dB OUT:.....+20 dBm MIN
- POWER SUPPLY:.....+15V @ 450 mA TYP.
- FINISH:.....GOLD PLATED

ENVIRONMENTAL RATINGS:

- OPERATING TEMPERATURE:.....-55 TO 85 °C



ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/06/02	
	A2	ECN # 21-0212	10/06/01	

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGN	E. PLASKET	10/06/02	Outline	
REVISION			PEC-100M18-30-4D5-20-15-SFF	
ISSUES			REV	REV
			B	A2
			27042520	
			SCALE 2:1	SHEET 1 OF 1

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 ISO 9001 CERTIFIED



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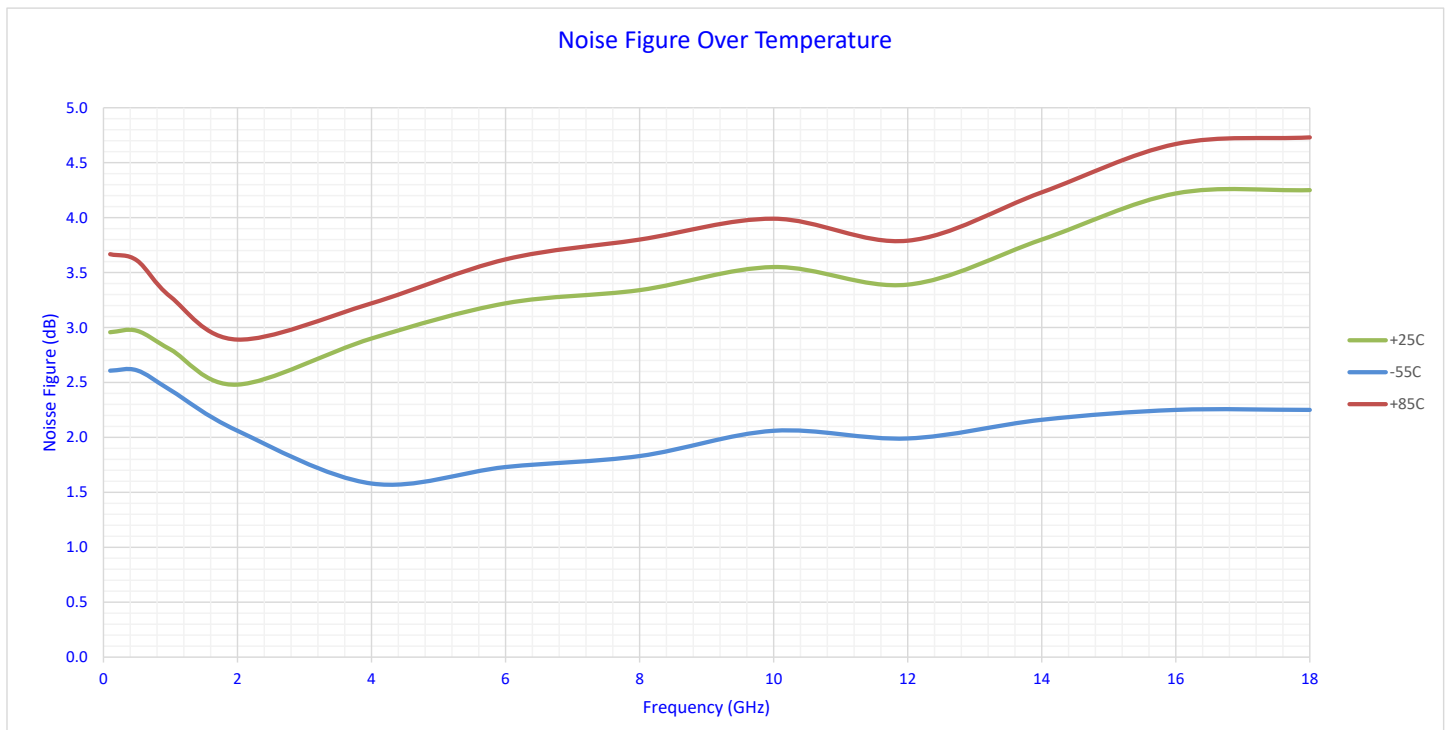
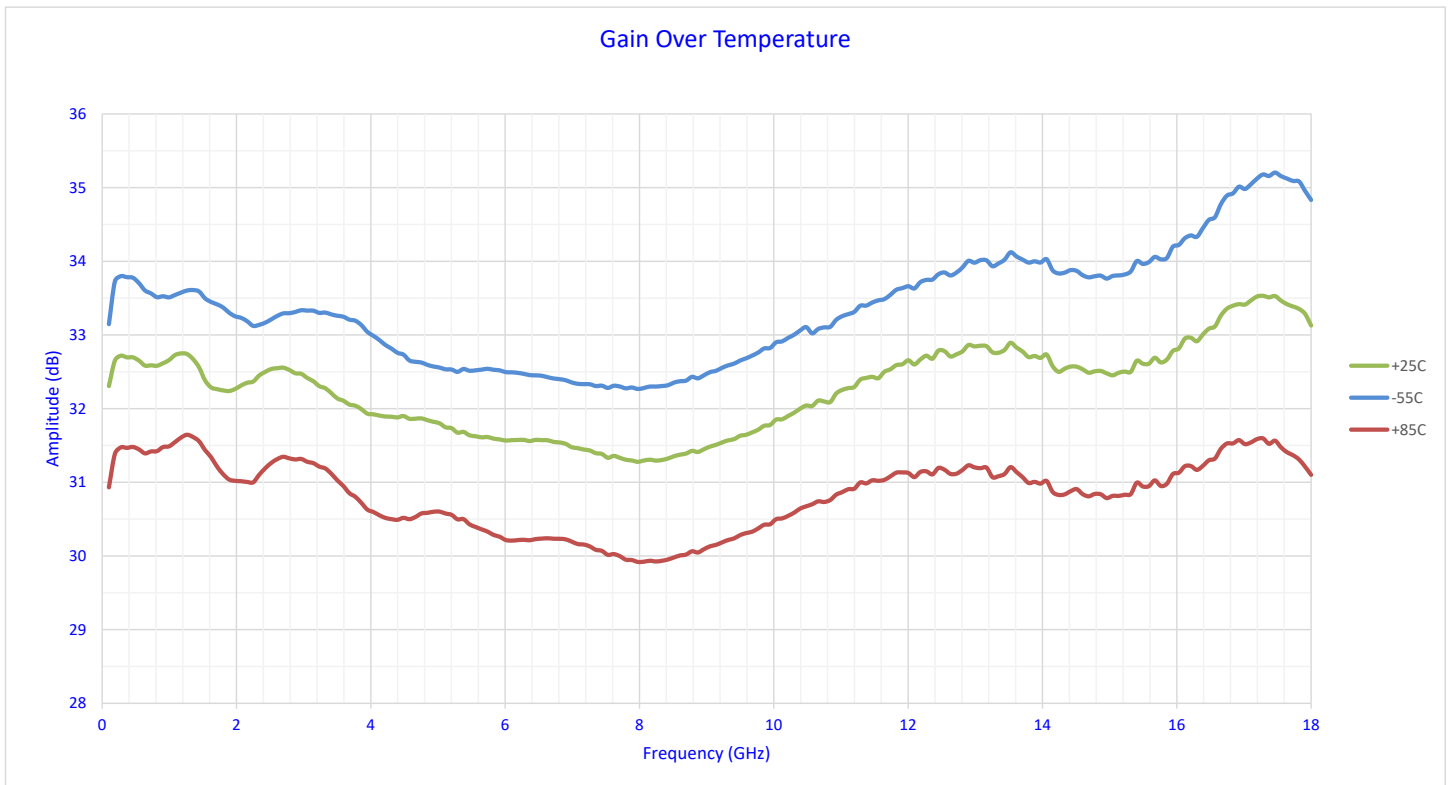
Technical Specifications

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC	
1	Frequency Range:	0.1 GHz - 18 GHz	0.1 GHz - 18 GHz See Plot		
2	Gain:	30 dB MIN. @ 23°C	-55C	+32.3 dB Min.	
			+25C	+31.3 dB Min.	
			+85C	+29.9 dB Min.	
3	Gain Flatness:	±2 dB MAX. @ 23°C	-55C	±1.47 dB See Plot	
			+25C	±1.13 dB See Plot	
			+85C	±0.86 dB See Plot	
4	*Noise Figure:	4.5 dB MAX. @ 23°C	-55C	3 dB See Plot	
			+25C	4.3 dB See Plot	
			+85C	4.7 dB See Plot	
5	Pout @ 1 dB Compression:	+20 dBm MIN. @ 23°C	-55C	+21 dBm See Plot	
			+25C	+20 dBm See Plot	
			+85C	+19 dBm See Plot	
6	VSWR: (Input/Output)	2.4:1 Max. In 2.3:1 Max. Out @ 23°C	-55C	2:1 In 2:1 Out See Plot	
			+25C	2:1 In 2:1 Out See Plot	
			+85C	2:1 In 2:1 Out See Plot	
7	DC Supply:	+15 VDC @ 450 mA Typ. @ 23°C	-55C	VDC @ 423 mA	
			+25C	VDC @ 399 mA	
			+85C	VDC @ 380 mA	

*Not Guaranteed below 700MHz

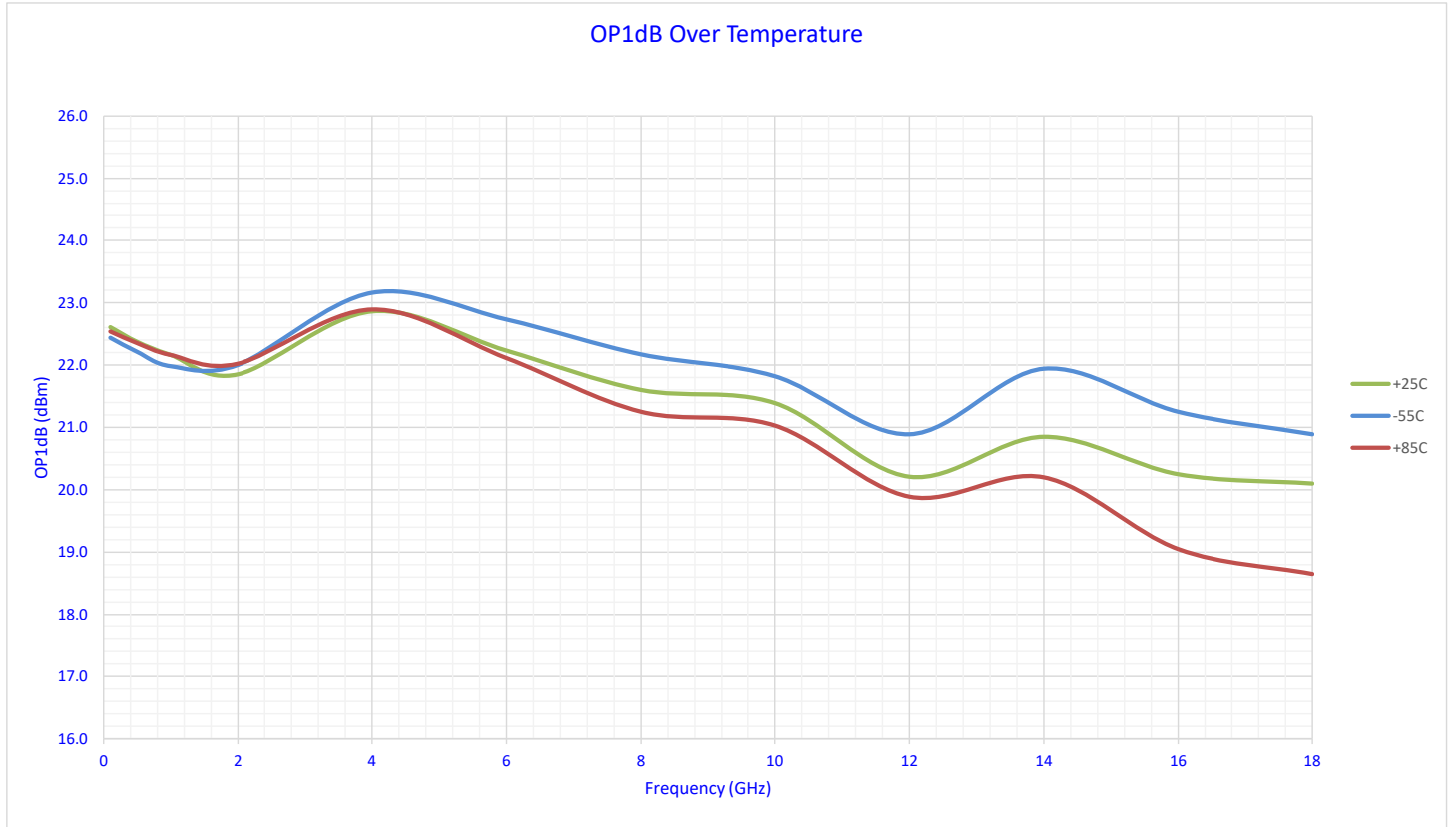


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