



**Typical Characteristics  
on  
PTB-40-0R118-6R5-21-120VAC-1U-SFF-OPT10M6G**

**THE MODEL PTB-40-0R118-6R5-21-120VAC-1U-SFF-OPT10M6G IS A LOW NOISE AMPLIFIER IN A RACK MOUNT CHASSIS. THIS MODEL HAS THE FOLLOWING SPECIFICATIONS.**



April 21, 2020

Designed By: PMI Engineering

Tested and Reported By: Kevin Mansfield



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# Typical Characteristics on PTB-40-0R118-6R5-21-120VAC-1U-SFF-OPT10M6G

## DESCRIPTION

THE MODEL PTB-40-0R118-6R5-21-120VAC-1U-SFF-OPT10M6G IS A LOW NOISE AMPLIFIER IN A RACK MOUNT CHASSIS. THIS MODEL HAS THE FOLLOWING SPECIFICATIONS.

## SPECIFICATIONS

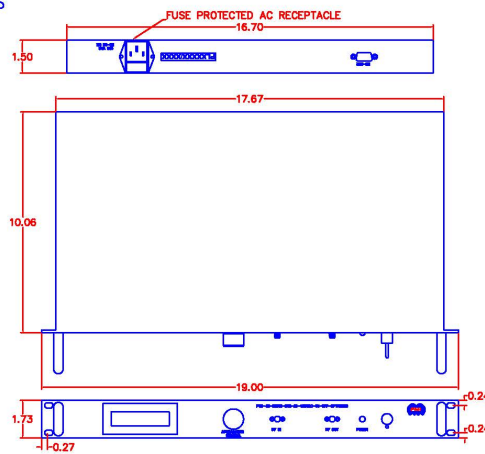
- FREQUENCY RANGE:..... 0.01 TO 6.0 GHZ
- GAIN:..... 40 dB MIN
- GAIN FLATNESS:..... ±1.5 dB MAX (0.1 TO 6.0 GHZ)  
±3.5 dB MAX (0.01 TO 0.1 GHZ)
- NOISE FIGURE:..... 6.5 dB TYP (0.1 TO 6.0 GHZ)  
10.0 dB TYP (0.01 TO 0.1 GHZ)
- OP1dB:..... +20 dBm MIN
- ATTENUATION RANGE..... 50 dB MIN, 60 dB TYP  
(1 dB STEPS)
- AC POWER:..... 120 VAC, 60 HZ  
6 FOOT POWER CORD SUPPLIED  
FUSE PROTECTION INCLUDED  
ON/OFF SWITCH  
LED POWER INDICATOR
- RS-232 CONTROL:..... 0dB TO 60 dB, BAUD RATE 9600  
# OF BITS:8, STOP BITS:1  
NO PARITY, NO FLOW CONTROL
- CHASSIS:..... 1U HEIGHT, 10" DEPTH  
TO FIT IN 19" RACK
- CONNECTORS:..... SMA (F)

## ENVIRONMENTAL RATINGS

- TEMPERATURE:.....-55°C TO +85°C (OPERATING)  
-55°C TO +85°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202F, METHOD 107D COND. A

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

REVISIONS			
DATE	REV.	DESCRIPTION	APPROVED
	A1	ORIGINAL RELEASE	8/22/10



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: 301-662-5019 FAX: 301-662-1731  
WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001:2000 CERTIFIED



APPROVALS	DATE	TITLE
DESIGN: NJA	8/22/10	PRODUCT FEATURE
CHECKED:		PTB-40-0R118-6R5-21-120VAC-1U-SFF-OPT10M6G
DRAWN:		SIZE: FROM NO. A 05XQ0
		DWG NO. 27037040
		SCALE: N/S
		SHEET 1 OF 1

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
%XX ±0.020  
X.XXX ±0.010

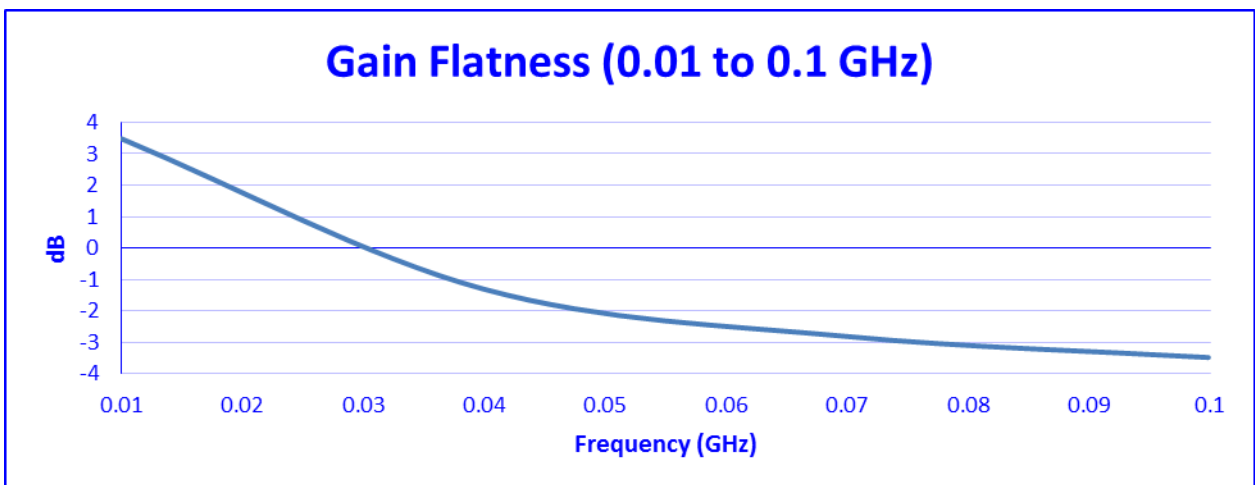
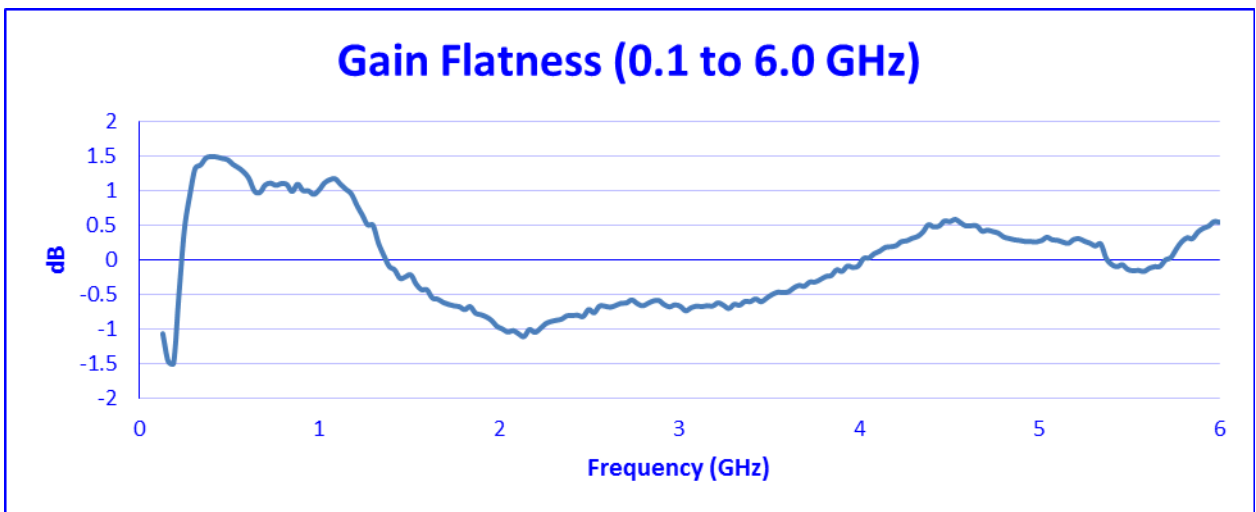
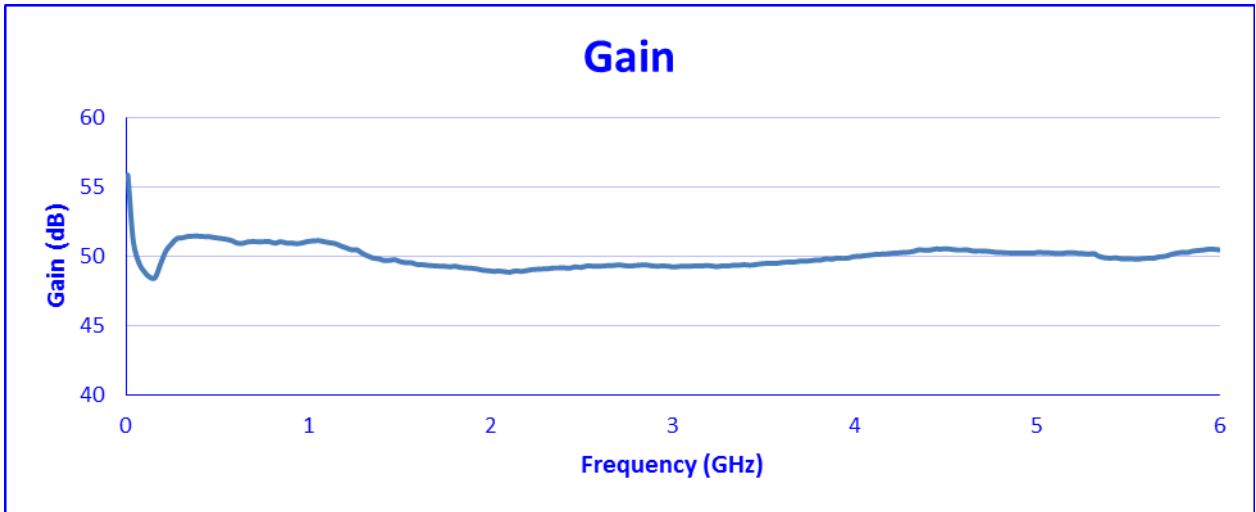


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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	10 MHz - 6.0 GHz	<b>10 MHz - 6.0 GHz</b>	
2	Gain:	40 dB Min.	<b>+48.5 dB Min.</b> See Plot	
3	*Gain Flatness:	±1.5 dB Max. (0.1 to 6.0 GHz) ±3.5 dB Max. (0.01 to 0.1 GHz)	<b>±1.5 dB (0.1 to 6.0 GHz)</b> <b>±3.5 dB (0.01 to 0.1 GHz)</b> See Plot	
4	Noise Figure:	6.5 dB Typ. (0.1 to 6.0 GHz) 10 dB Typ. (0.01 to 0.1 GHz)	<b>4.9 dB (0.1 to 6.0 GHz)</b> <b>14.3 dB (0.01 to 0.1 GHz)</b> See Plot	
5	OP1dB:	+20 dBm Min.	<b>+21 dBm Min.</b> See Plot	
6	Attenuation Range:	50 dB Min, 60 dB Typ. (1 dB Steps)	<b>60.2 dB</b> See Plot	
7	AC Power:	120 VAC, 60 Hz	<b>Pass</b>	
8	RS-232 Control: 0 dB to 60 dB Baud Rate: 9600 # of Bits: 8 Stop Bits: 1 No Parity No Flow Control	ATNXX  Where XX is desired attenuation value in dB		
*With No Attenuation Selected.				



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