

TYPICAL CHARACTERISTICS
ON
PA-LPN-40-50M500M-5-35DBM-SFF-X8

PMI MODEL NUMBER PA-LPN-40-50M500M-5-35DBM-SFF-X8 IS A CHASSIS CONTAINING 8 AMPLIFIERS WITH THE ABILITY TO INDIVIDUALLY TERMINATE UNUSED INPUT PORTS INTERNALLY INTO 50 OHMS. THE MINIMUM GAIN IS 38 dB WITH AN OUTPUT P1dB OF +32 dBm.



DESIGNED AND REPORTED BY:

M. LAULIS

DATE:

3/13/2026

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Outline

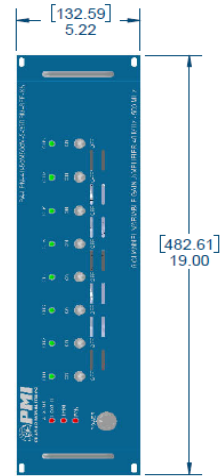
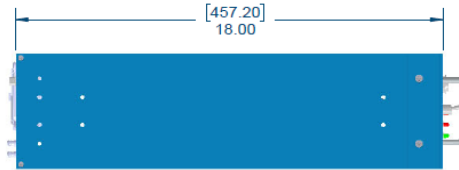
DESCRIPTION:

PMI MODEL NUMBER PA-LPN-40-50M500M-5-35DBM-SFF-X8 IS A CHASSIS CONTAINING 8 AMPLIFIERS WITH THE ABILITY TO INDIVIDUALLY TERMINATE UNUSED INPUT PORTS INTERNALLY INTO 50 OHMS. THE MINIMUM GAIN IS 38 dB WITH AN OUTPUT P1dB OF +32 dBm.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/20/22	

SPECIFICATIONS:

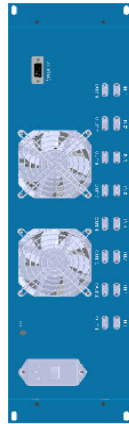
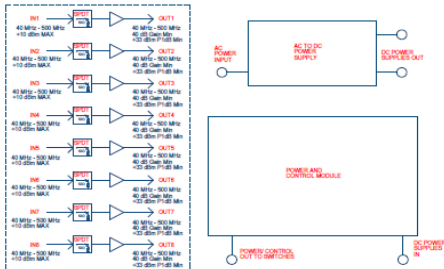
- FREQUENCY RANGE:..... 40 MHz TO 500 MHz
- NUMBER OF CHANNELS:..... 8 (8 INPUTS, 8 OUTPUTS)
- MAXIMUM INPUT POWER:..... +10 dBm
- GAIN (WITH 0 dB ATTENUATION):..... 38 dB MINIMUM, 40 dB TYP
- OUTPUT P1dB:..... +32 dBm MINIMUM, 33 dBm TYP
- TOGGLE SWITCH ACTIVATION:..... TOGGLE SWITCH UP = RF ON
- FAN AND TEMPERATURE ALARM:..... TTL OUTPUT AND RED LED
- INPUT SPDT SWITCH:..... THROUGH OR INPUT TERMINATED INTO 50 OHM
- CONNECTORS:..... RF IN/ OUT: SMA FEMALE
- POWER SUPPLY:..... 100-240 VAC 50/60 Hz
- SIZE:..... 3U 19" RACK MOUNT CHASSIS 20" DEEP MAXIMUM
- FINISH:..... POWDER COATED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... 10°C TO +30°C (OPERATING)

CONCEPTUAL BLOCK DIAGRAM:



PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS		DATE	TITLE	
DRAWN	M. LAULIS	8/20/22	OUTLINE	
ISSUED			PA-LPN-40-50M500M-5-35DBM-SFF-X8	
SIZE	B	05X00	DWG NO.	27052320
SCALE	1:1			

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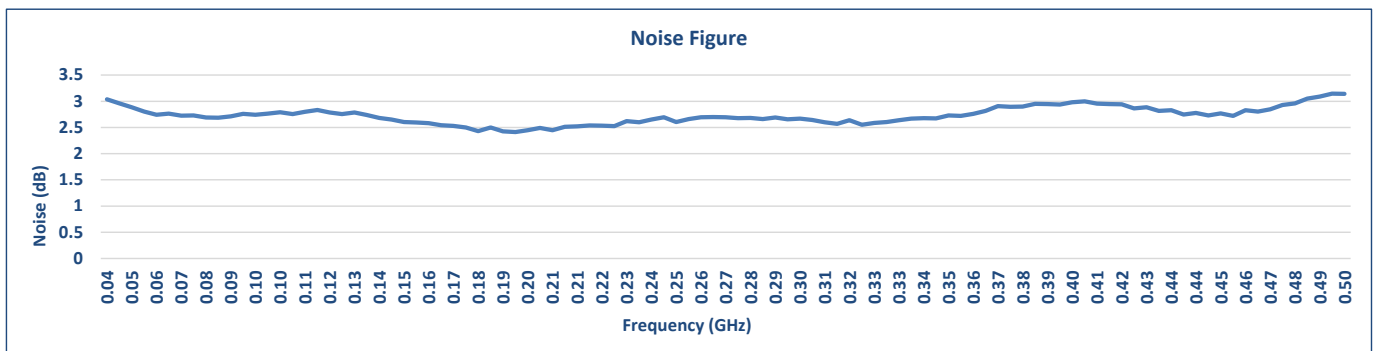
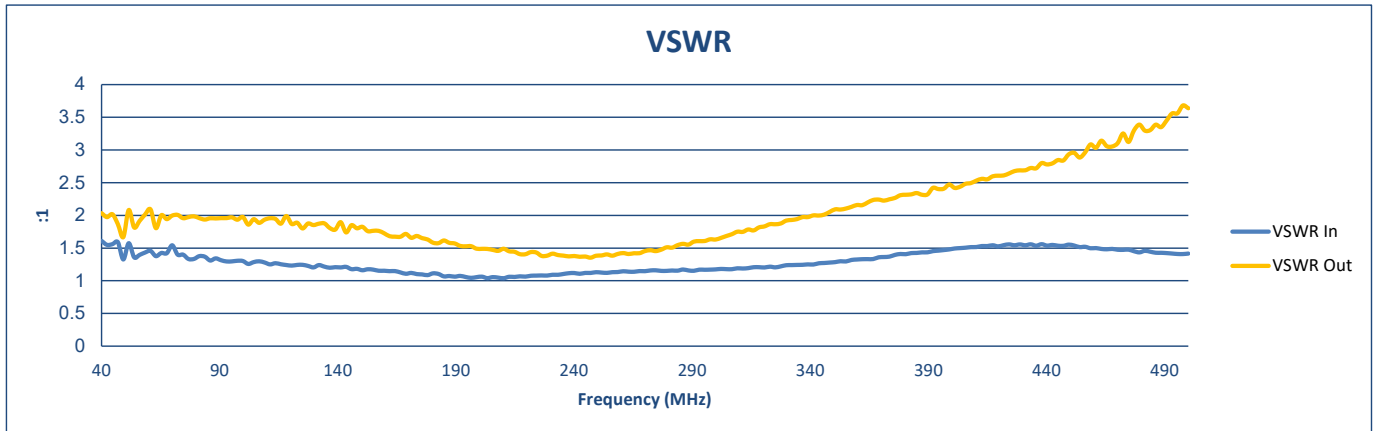
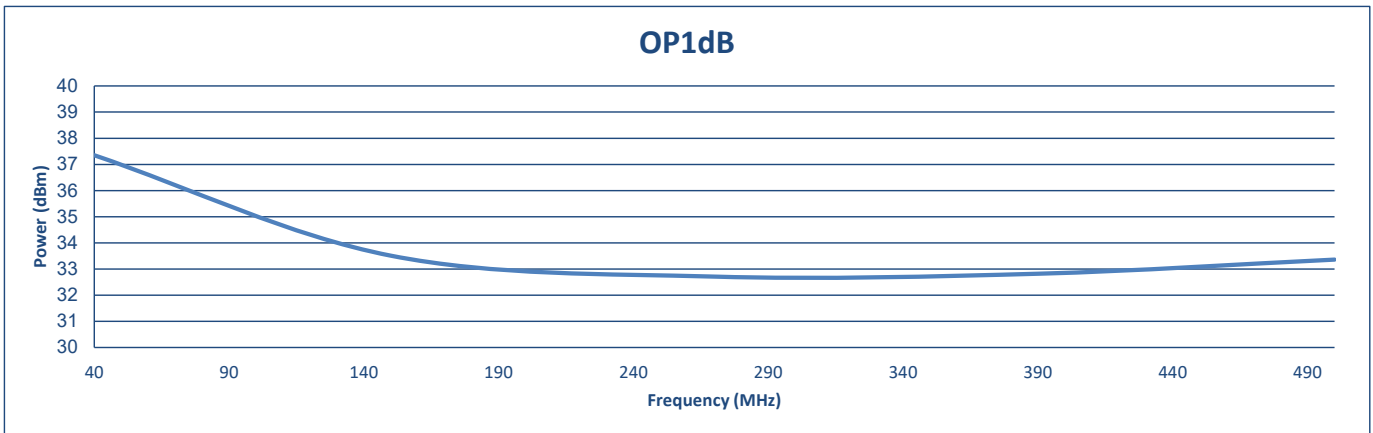
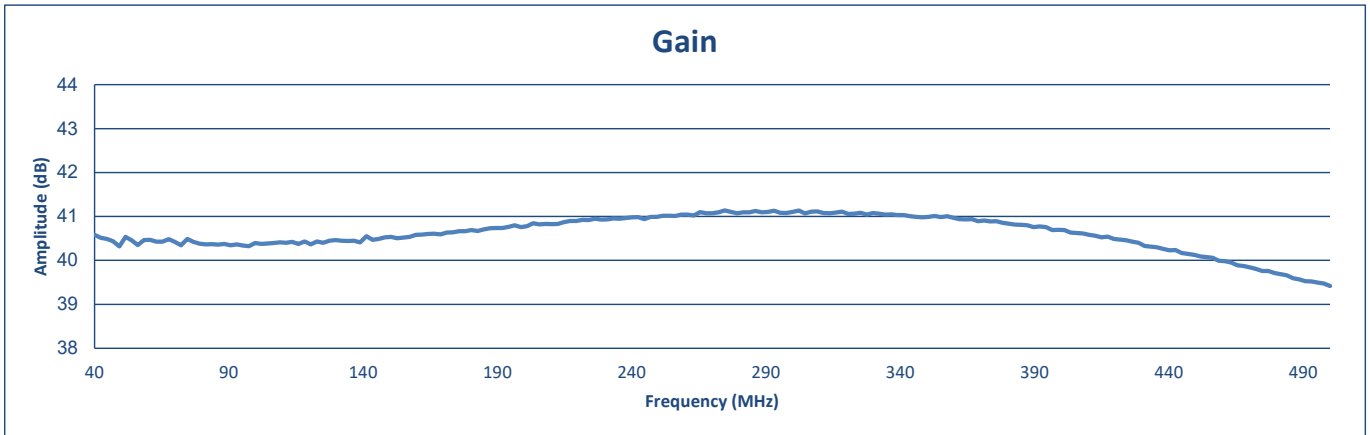
TEST SPECIFICATIONS

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results @ +25°C	QA QC
1	Frequency Range:	40 to 500 MHz	40 to 500 MHz	
2	Gain:	38 dB Min. 40 dB Typ.	39.4 dB Min. See Plot	
3	OP1dB:	+32 dBm Min. +33 dBm Typ.	+32.6 dBm Min. See Plot	
4	Amplifier Channel Activation	Channel 1	Toggle Switch = AMP1 RF On	
		Channel 2	Toggle Switch = AMP2 RF On	
		Channel 3	Toggle Switch = AMP3 RF On	
		Channel 4	Toggle Switch = AMP4 RF On	
		Channel 5	Toggle Switch = AMP5 RF On	
		Channel 6	Toggle Switch = AMP6 RF On	
		Channel 7	Toggle Switch = AMP7 RF On	
		Channel 8	Toggle Switch = AMP8 RF On	
5	Alarm Outputs	LED Activation and Output Signal	Error Dsub TTL Output RED Alert LED On	

*FOR ALL OTHER SPECIFICATIONS PLEASE SEE TYPICAL CHARACTERISTICS ON THE PMI WEBSITE

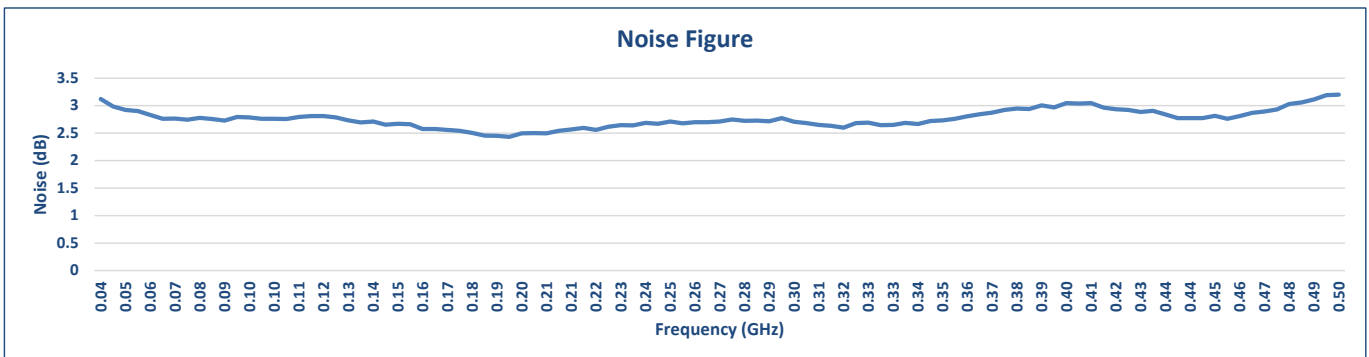
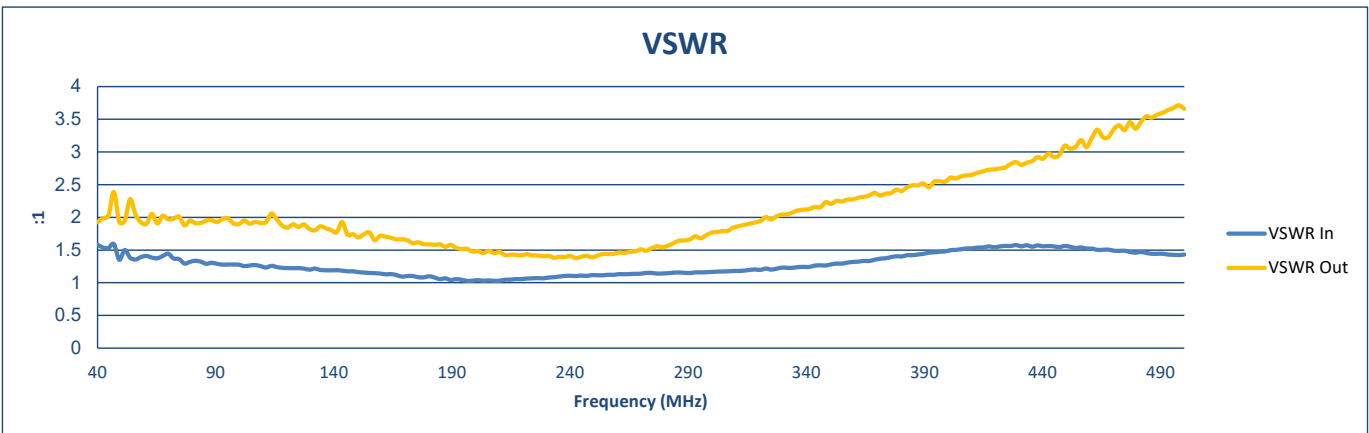
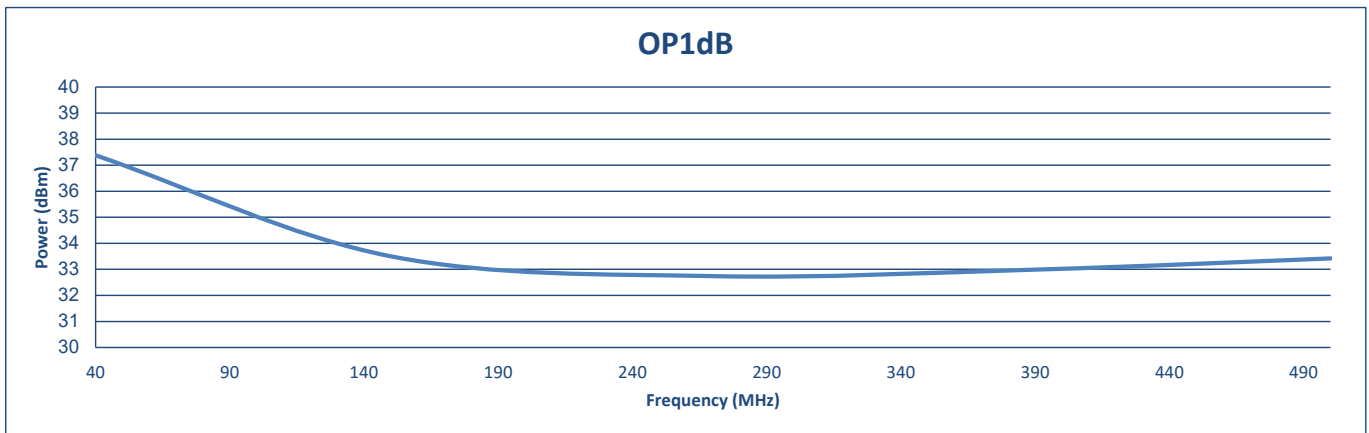
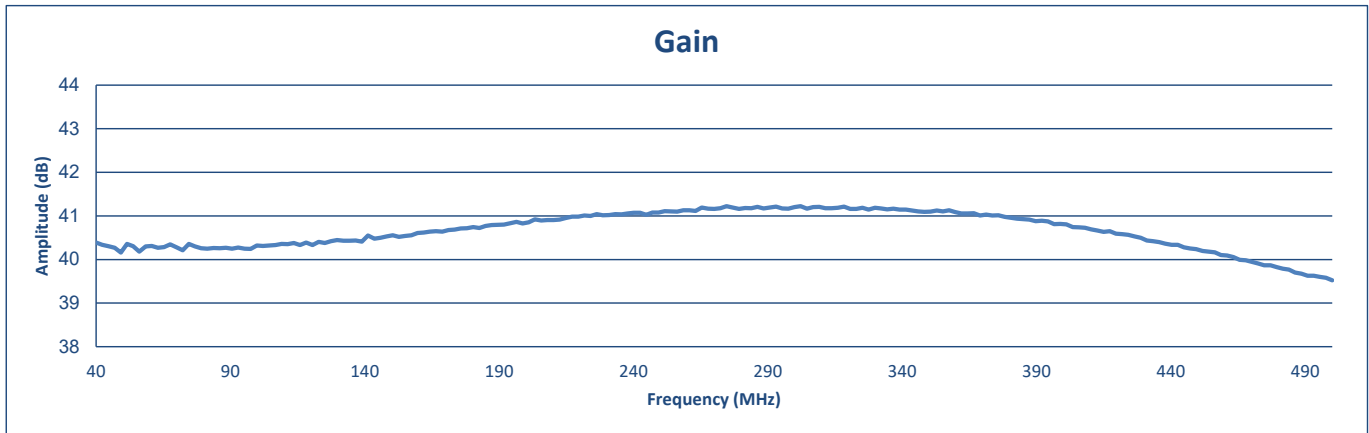
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Channel 1



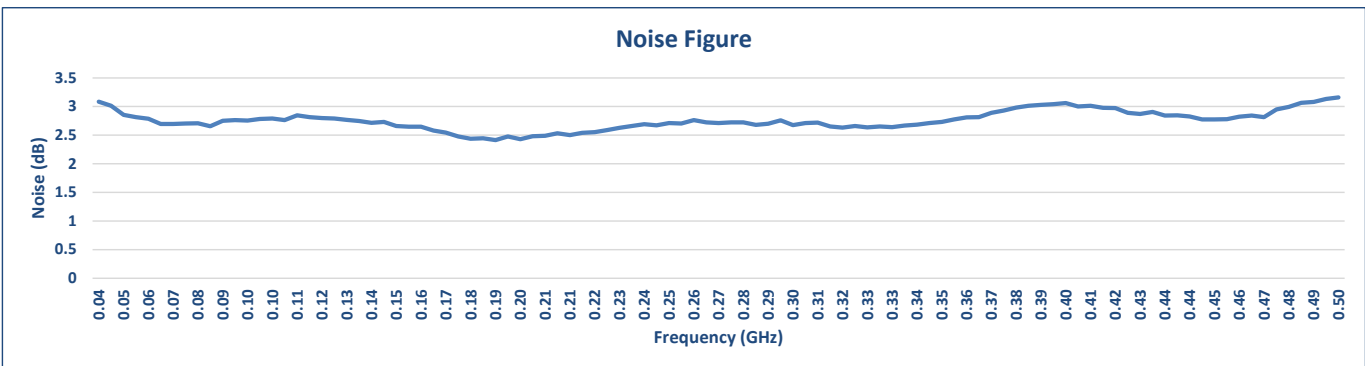
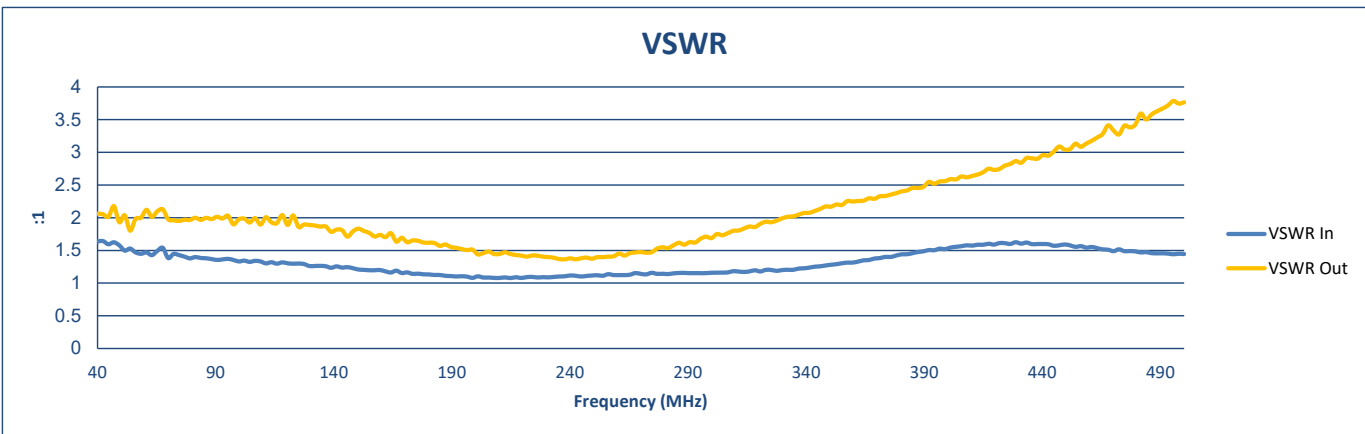
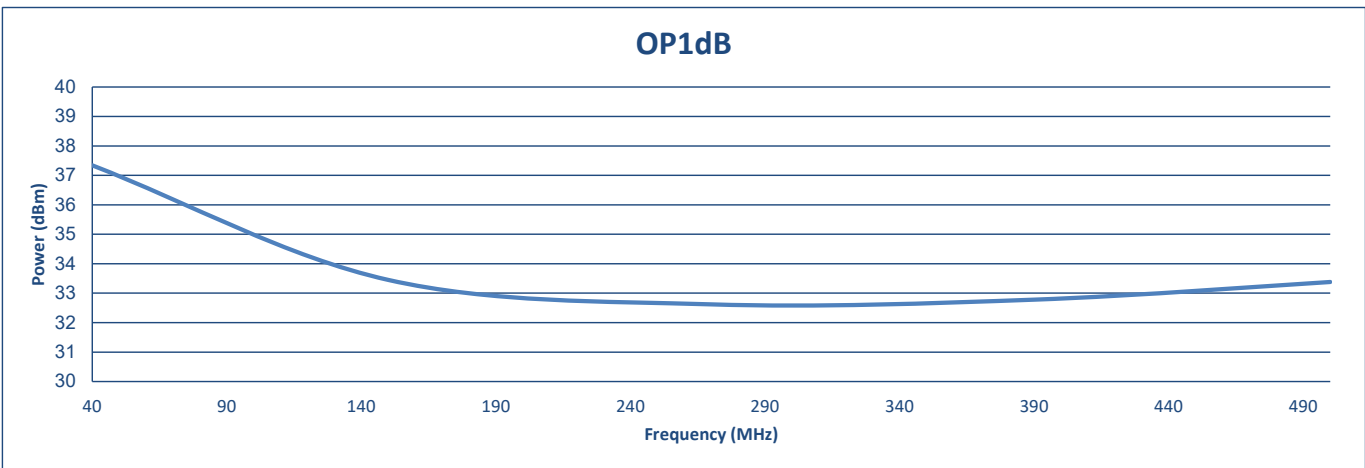
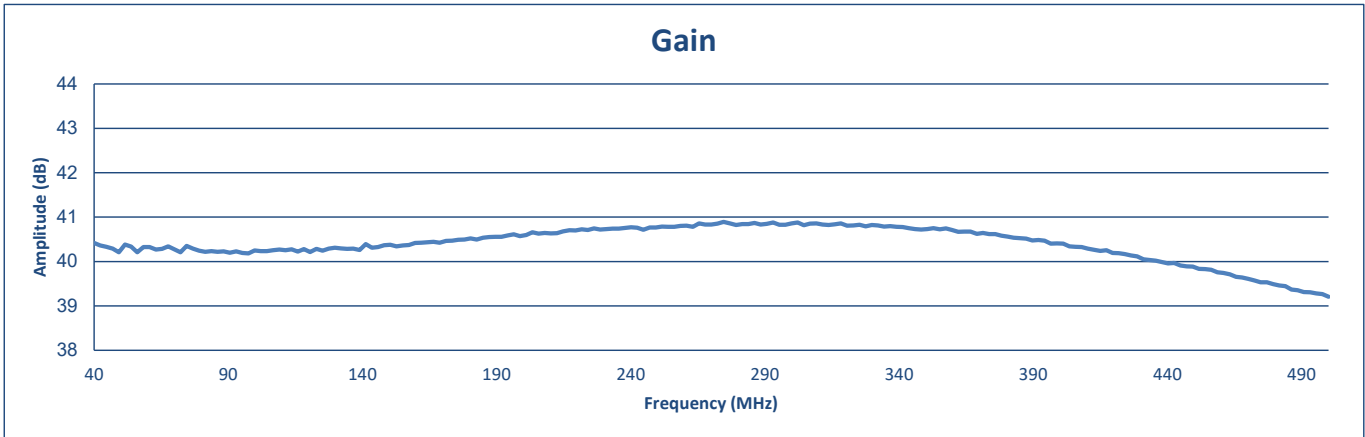
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Channel 2



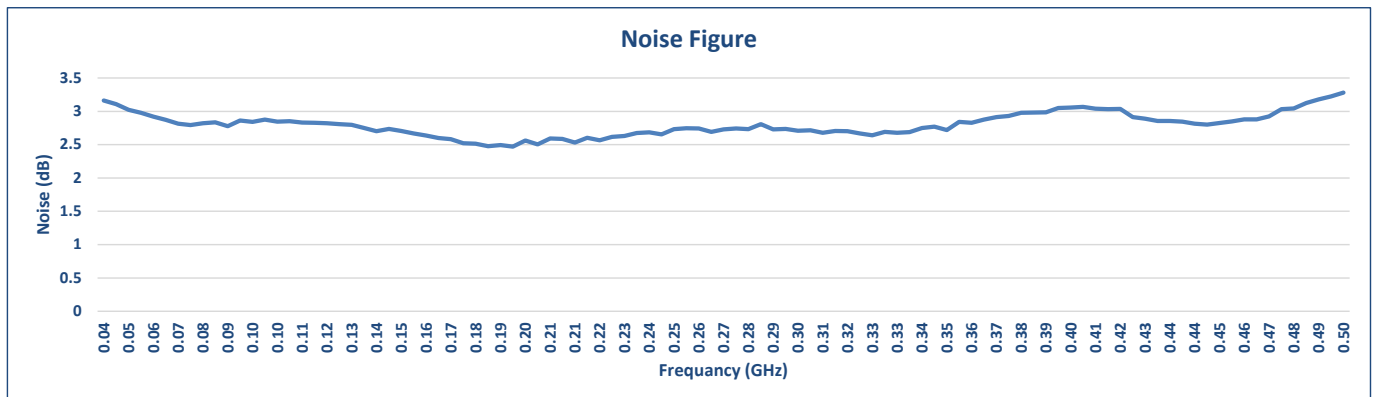
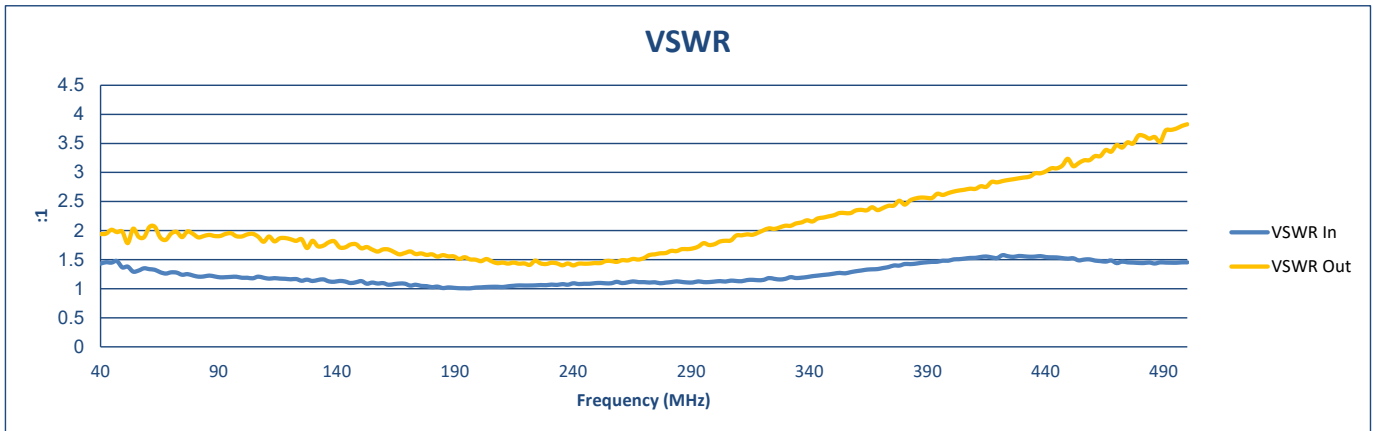
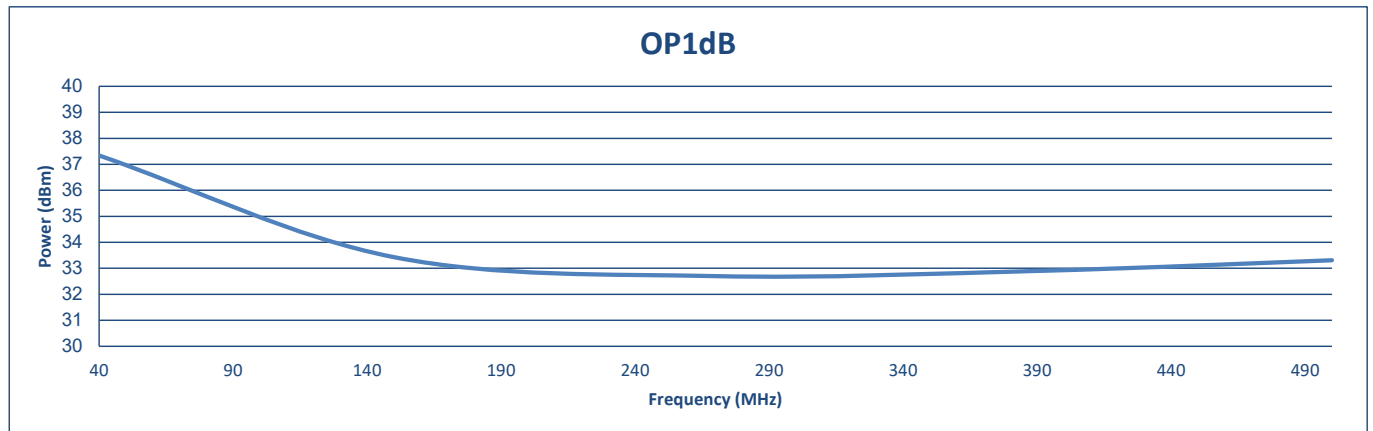
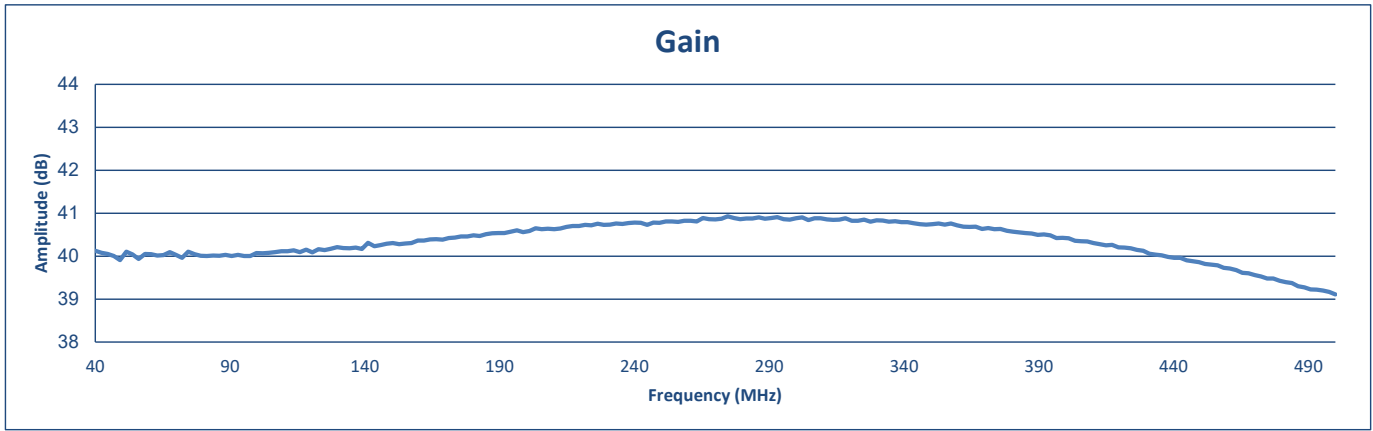
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Channel 3



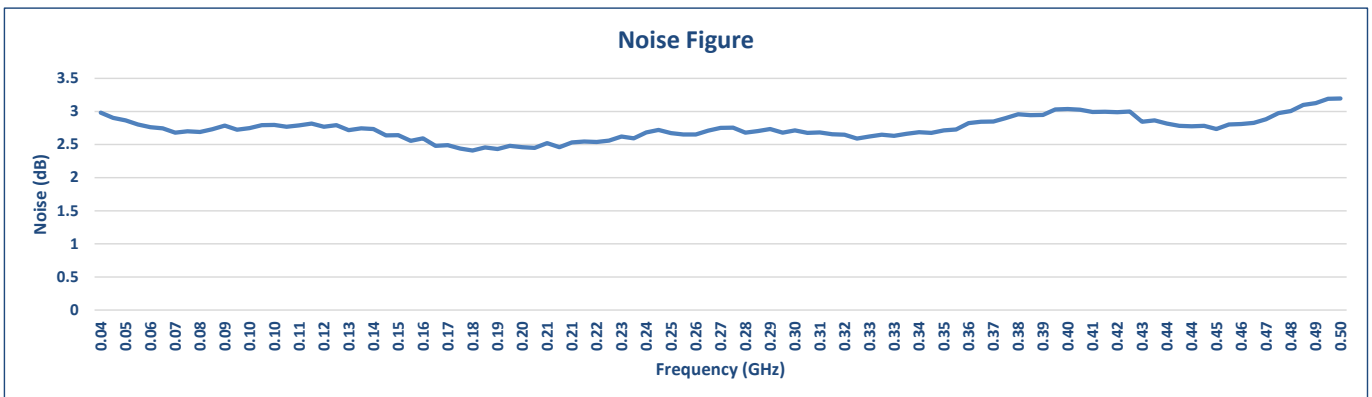
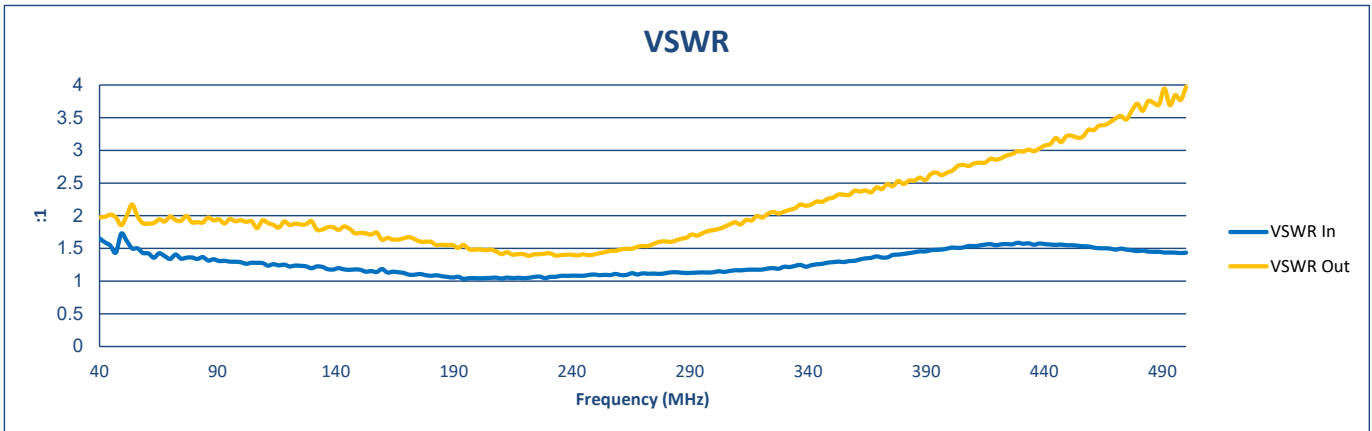
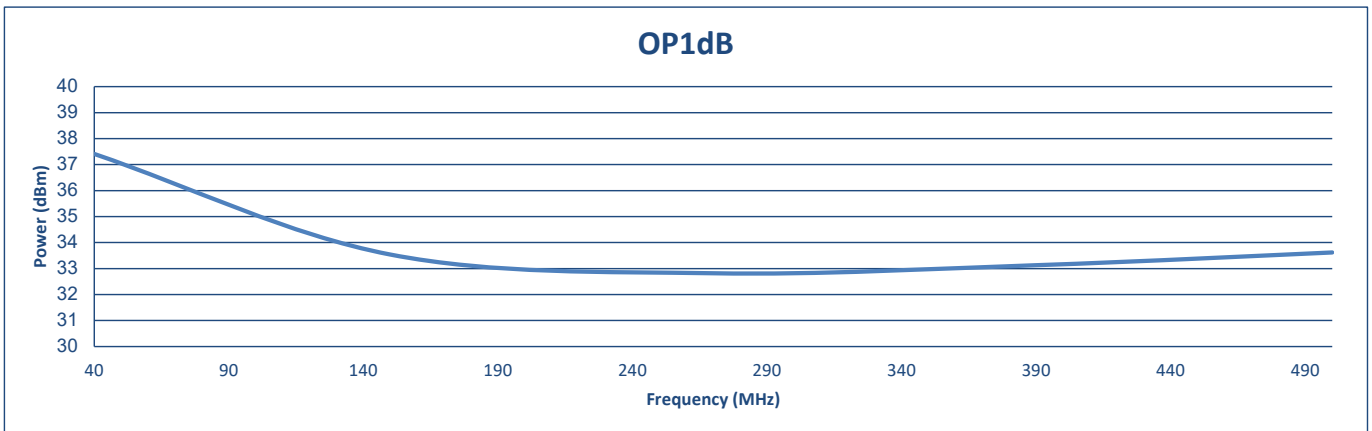
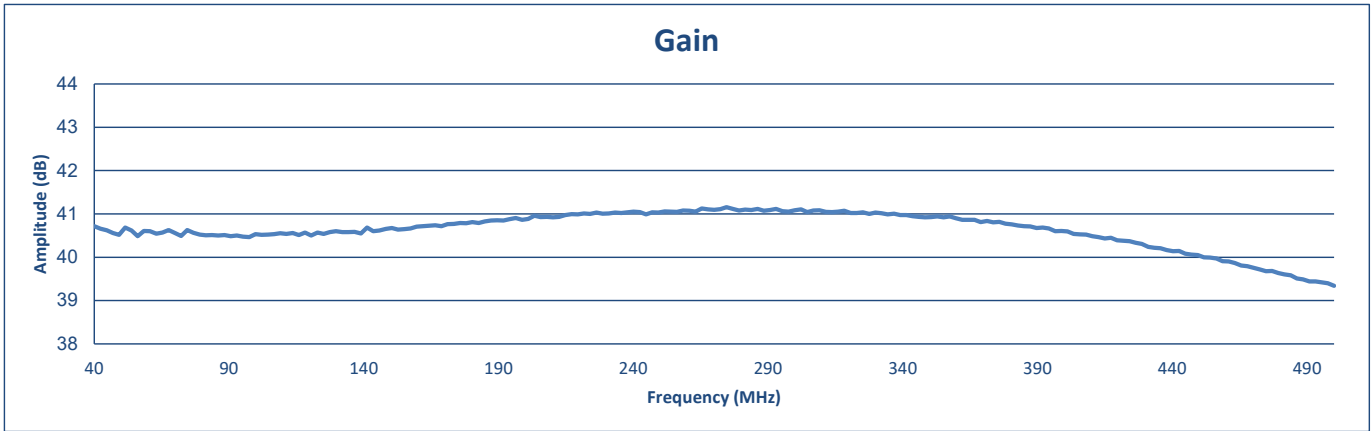
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Channel 4



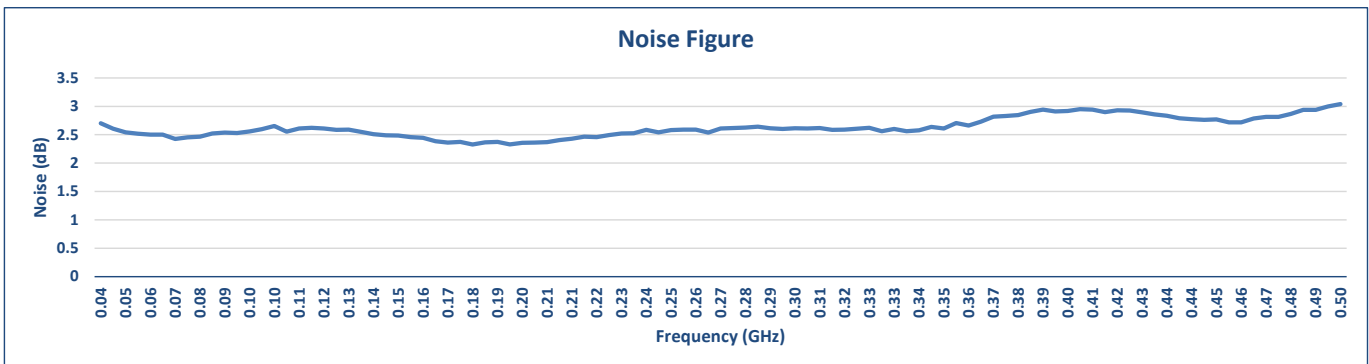
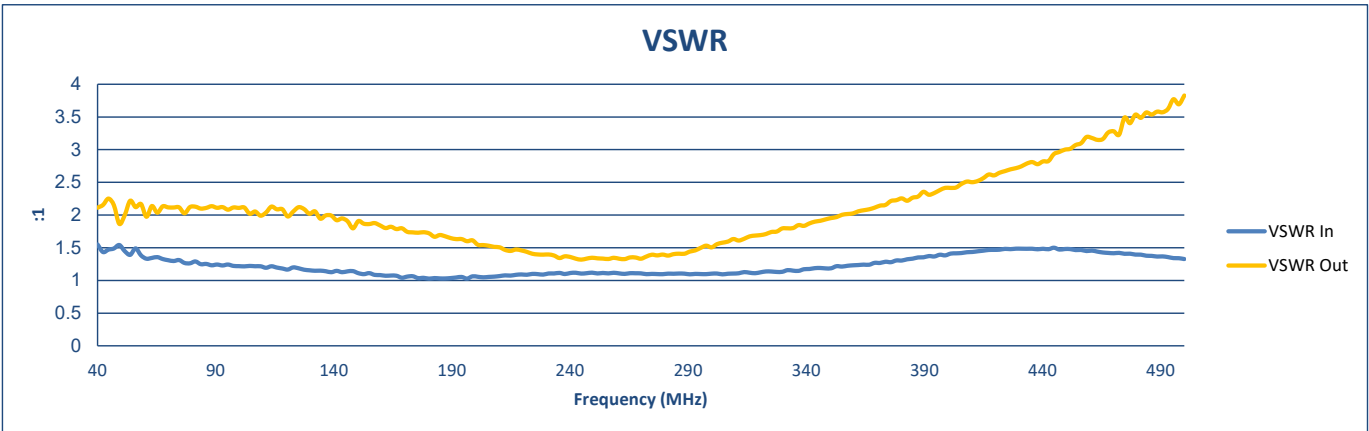
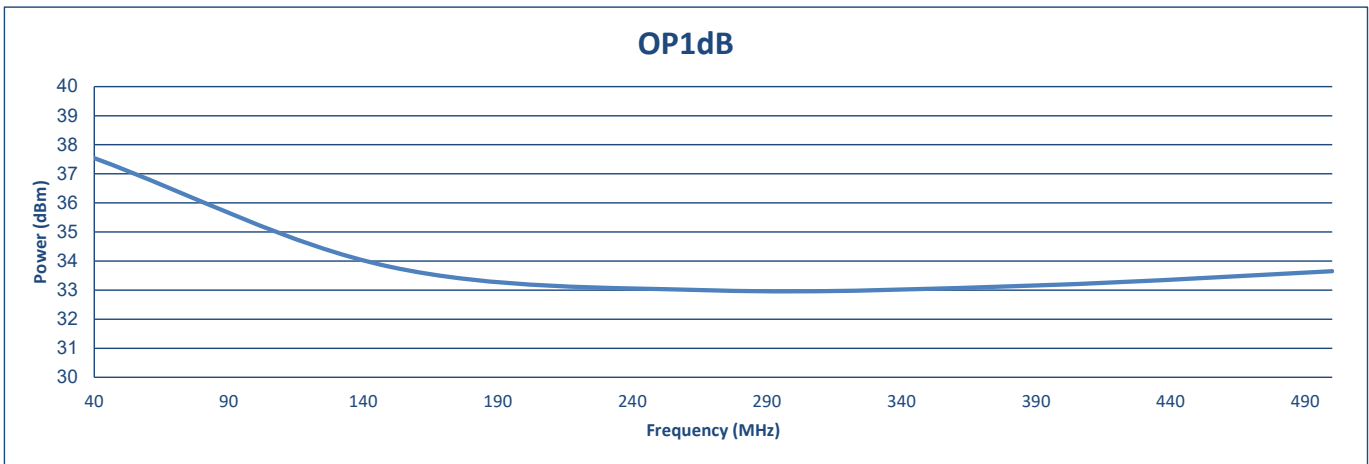
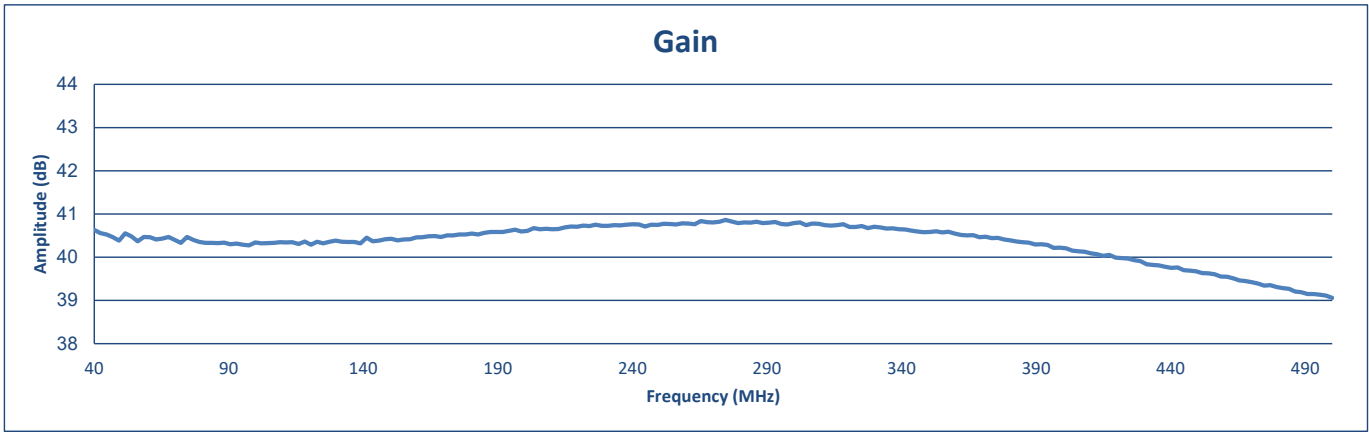
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Channel 5



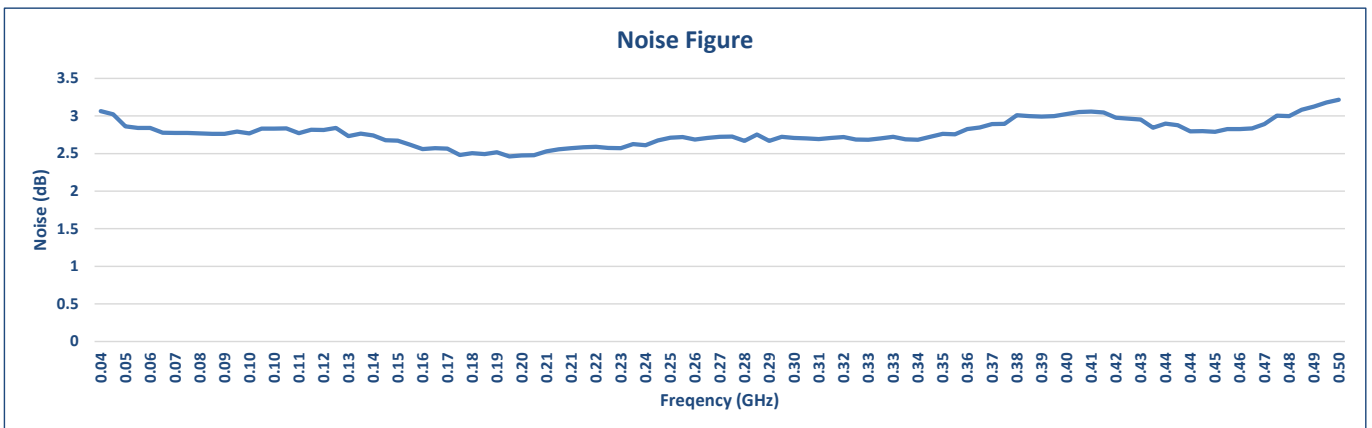
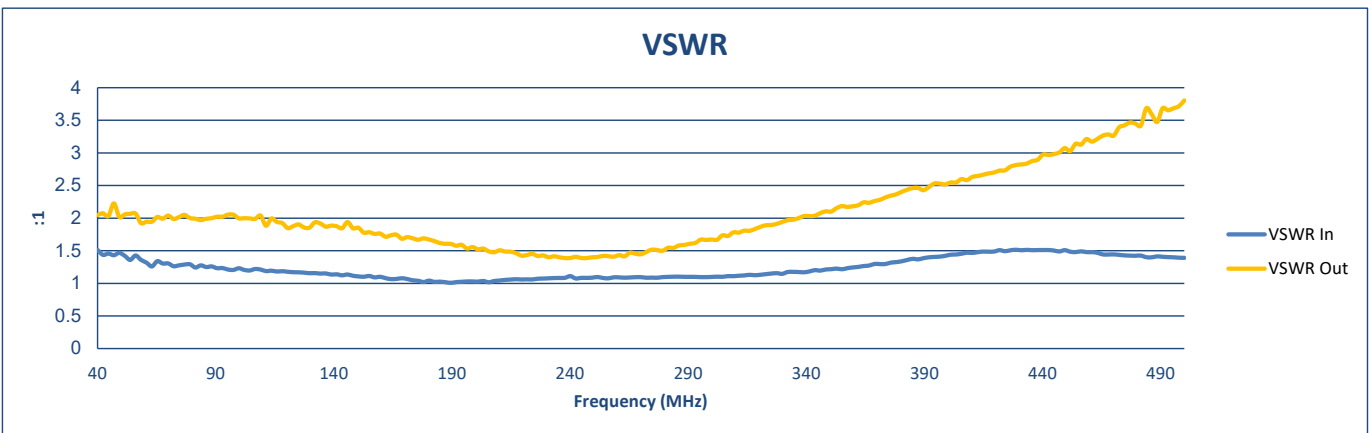
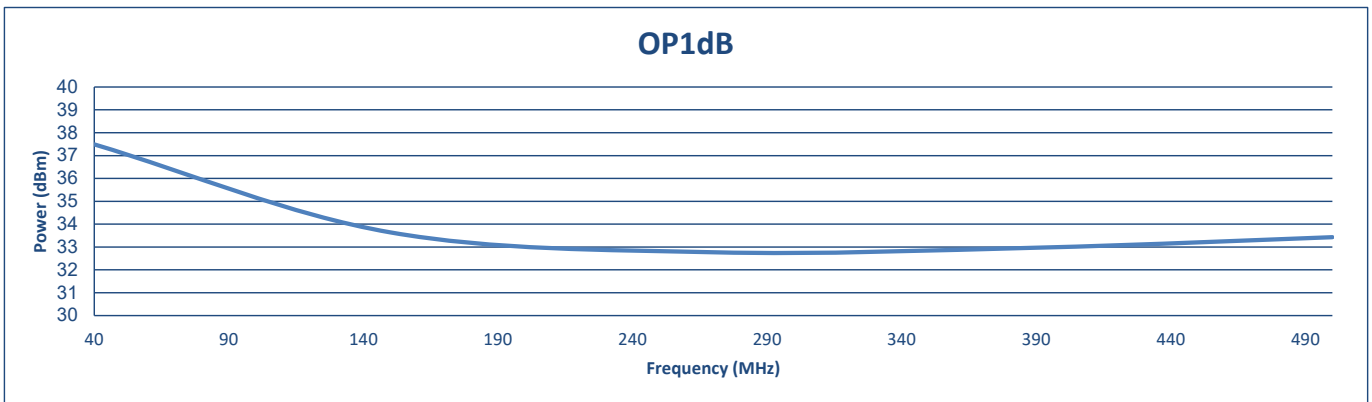
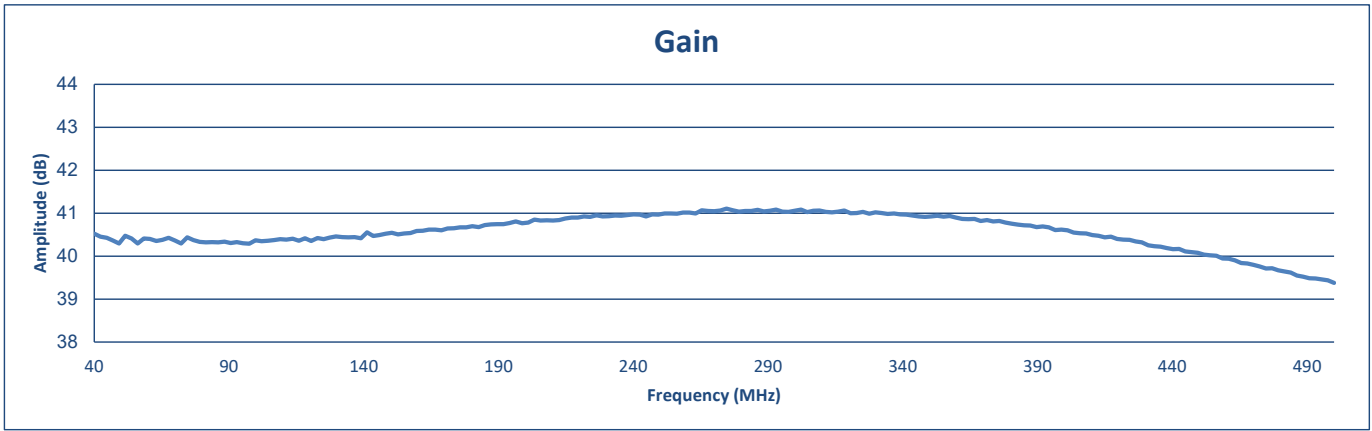
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Channel 6



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Channel 7



TYPICAL CHARACTERISTICS ON PA-LPN-40-50M500M-5-35DBM-SFF-X8

Channel 8

