

**TYPICAL CHARACTERISTICS
ON
APD-2-2G8G-SFF-30W**

PMI MODEL NUMBER APD-2-2G8G-SFF-30W IS A TWO-WAY POWER DIVIDER FEATURING HIGH ISOLATION, LOW INSERTION LOSS, LOW VSWR, AND HAS EXCELLENT PHASE AND AMPLITUDE BALANCE.



Reported By	Noor Azhar
Tested By	Eric Kretz
Date	June 6th 2025

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Email: sales@quanticpmi.com

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PRODUCT FEATURE

DESCRIPTION:

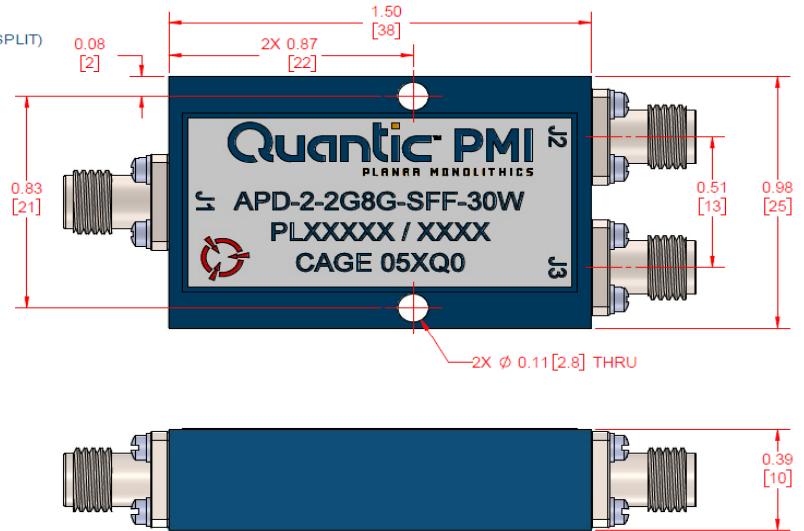
PMI MODEL NUMBER APD-2-2G8G-SFF-30W IS A TWO WAY POWER DIVIDER THAT OPERATES OVER THE 2.0 TO 8.0 GHz FREQUENCY RANGE.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 8.0 GHz
- INSERTION LOSS:..... 0.6 dB MAX (ABOVE 3.01 dB SPLIT)
- VSWR:..... 1.3:1 (J1) MAX
1.2:1 (J2, J3) MAX
- ISOLATION:..... 20 dB MIN
- AMPLITUDE BALANCE:..... ±0.2 dB MAX
- PHASE BALANCE:..... ±2° MAX
- POWER HANDLING:..... FORWARD: 30 WATTS MAX
REVERSED: 1 WATT MAX
- IMPEDANCE:..... 50 OHMS
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... UP TO 95%, NON-CONDENSING (OPERATING)
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A



ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/28/2008	

PMI CONFIDENTIAL AND PROPRIETARY

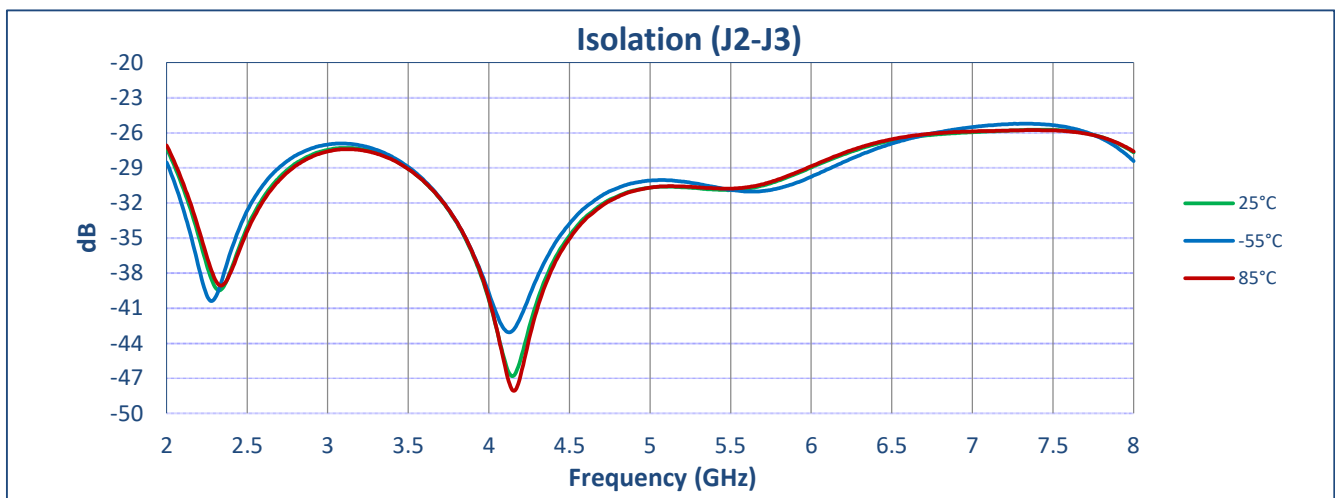
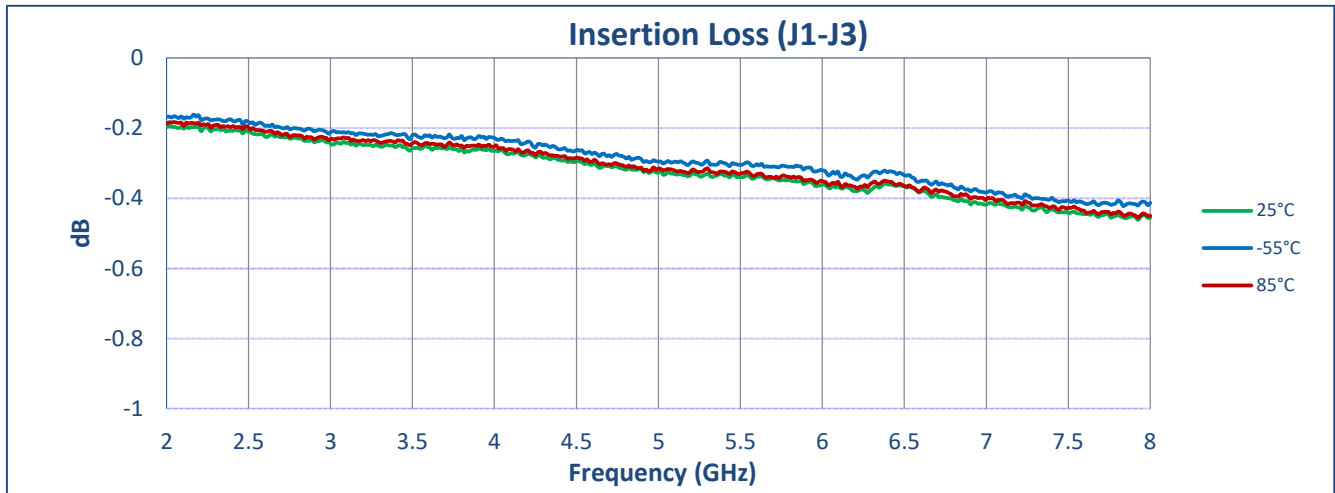
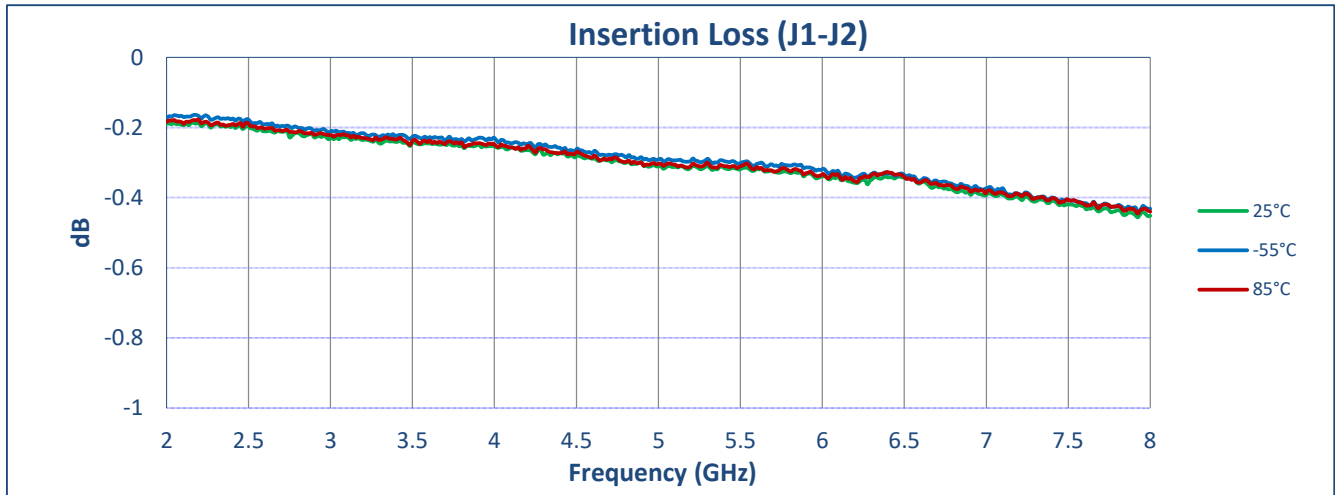
PART NO.		Quantic PMI PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK, MD 21704 USA WEB: WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM TEL: 301.662.5019 FAX: 301.662.1731	
APPROVALS	DATE	TITLE	
S. AZHAR	4/28/2008	OUTLINE	
DESIGNED		SIZE	REV
		B	A1
DETAILS		PMI NO.	
FUNCTION		27051700	
DATE		SCALE	
4/28/2008		3:1	
			SHEET 1 OF 1

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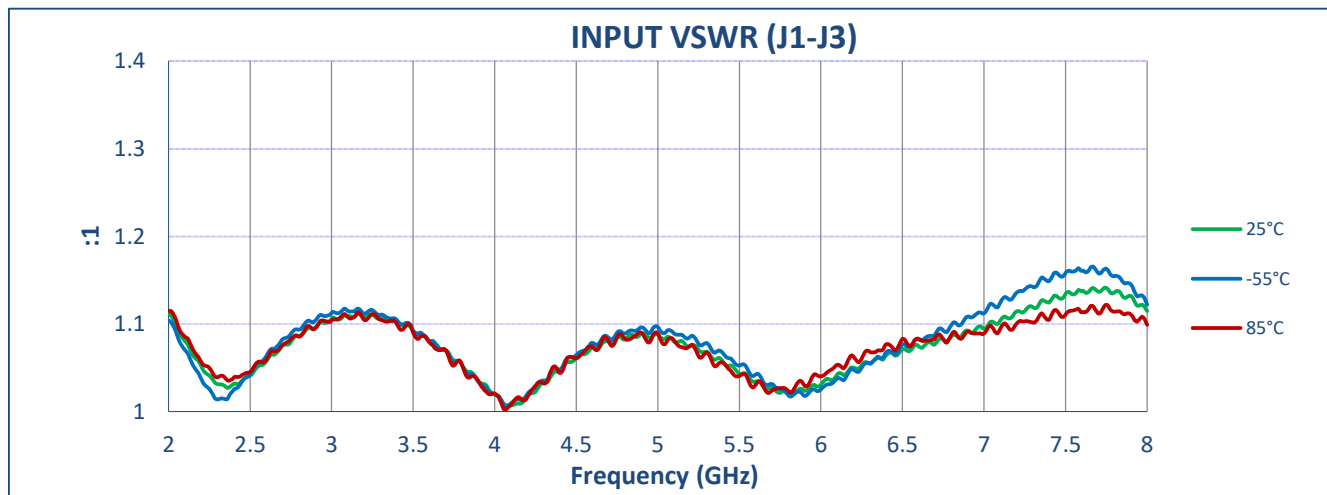
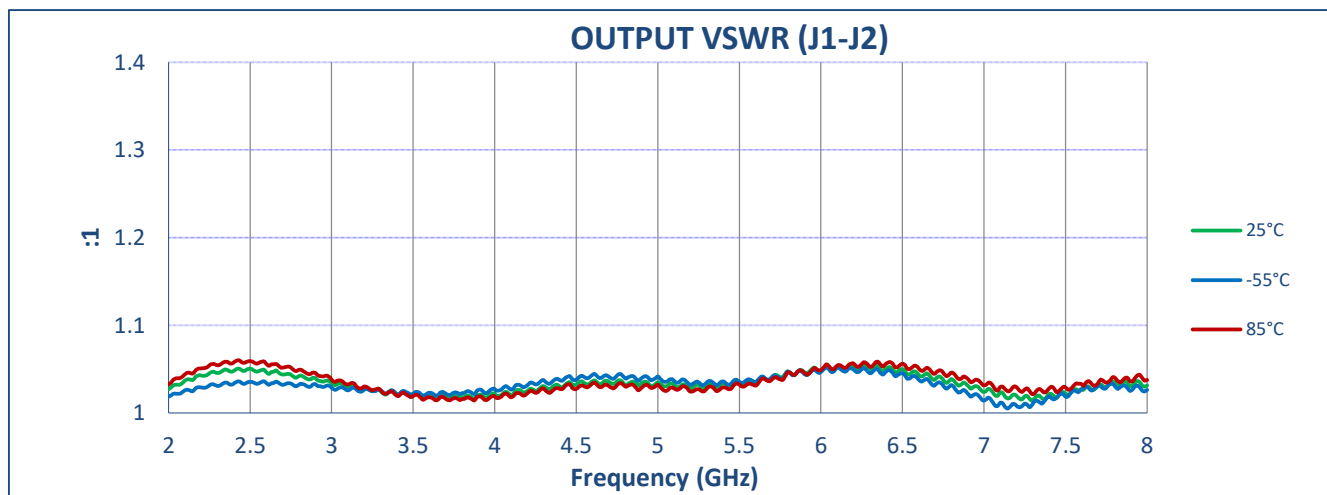
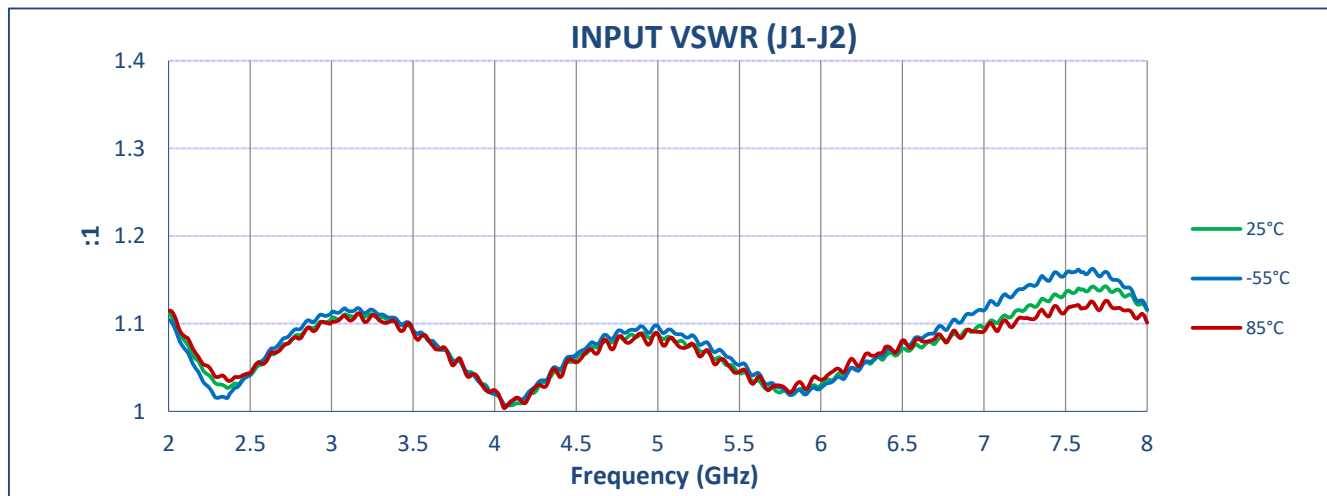
TEST DATA

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-55°C	85°C
1	Frequency Range	2.0 to 8.0 GHz	2.0 to 8.0 GHz		
2	Insertion Loss	0.6 dB Max. (Above 3.01 dB Split)	0.46 dB	0.44 dB	0.46 dB
3	VSWR: In/Out	1.3:1 (J1) Max. 1.2:1 (J2,J3) Max.	1.14:1 J1 1.05:1 J2 1.12:1 J3	1.17:1 J1 1.05:1 J2 1.13:1 J3	1.13:1 J1 1.06:1 J2 1.12:1 J3
4	Isolation	20 dB Min.	25.7 dB	25.2 dB	25.8 dB
5	Phase Balance	±2° Max	0° Max -0.27° Min	0.44° Max 0° Min	0.26° Max 0° Min
6	Amplitude Balance	±0.2 dB Max.	0.03dB Max 0 dB Min	0.01dB Max -0.02dB Min	0.03dB Max 0dB Min
7	Power Handling	Forward: 30 W Max. Reversed: 1 W Max.	Forward: 30 W Reversed: 1 W	Forward: 30 W Reversed: 1 W	Forward: 30 W Reversed: 1 W

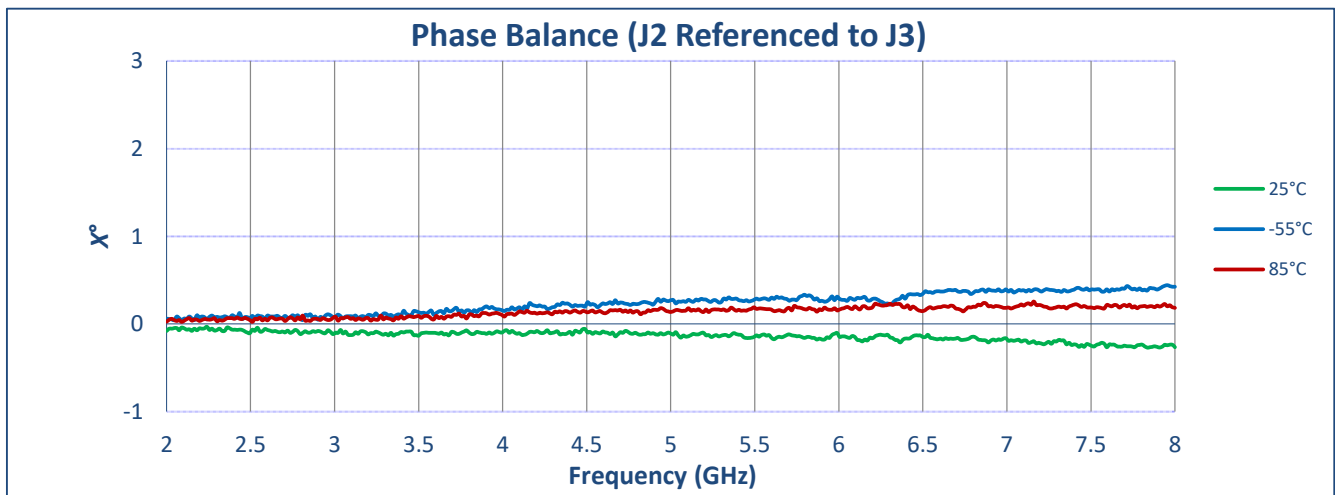
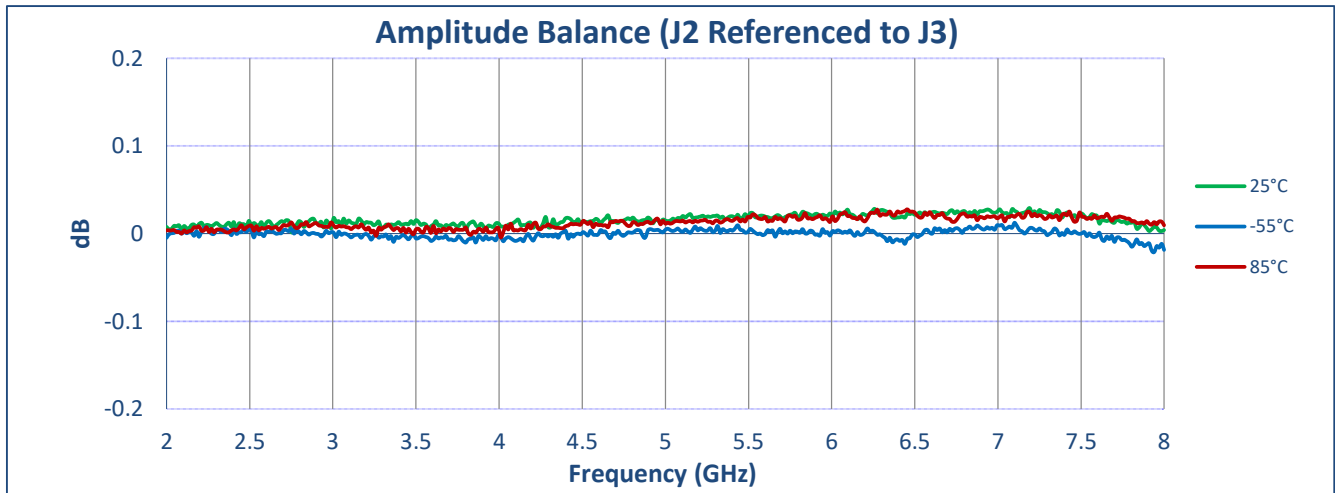
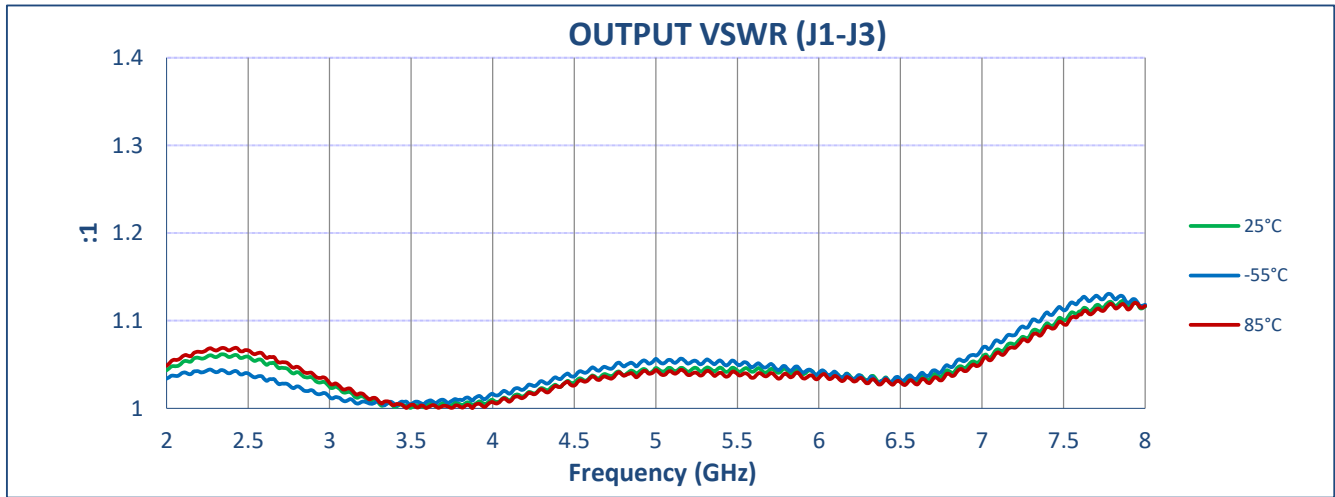
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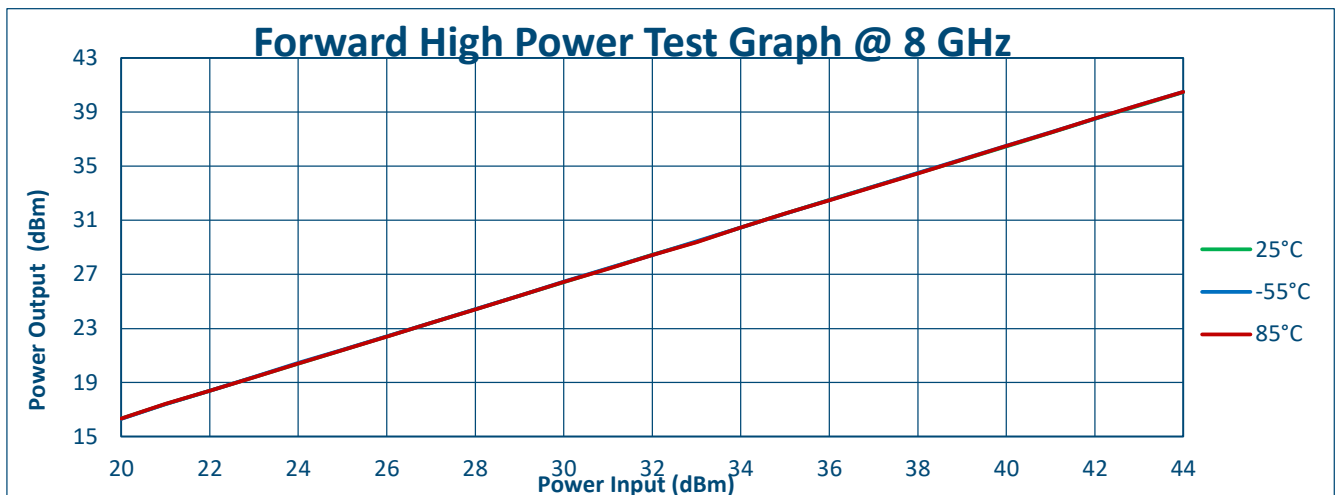
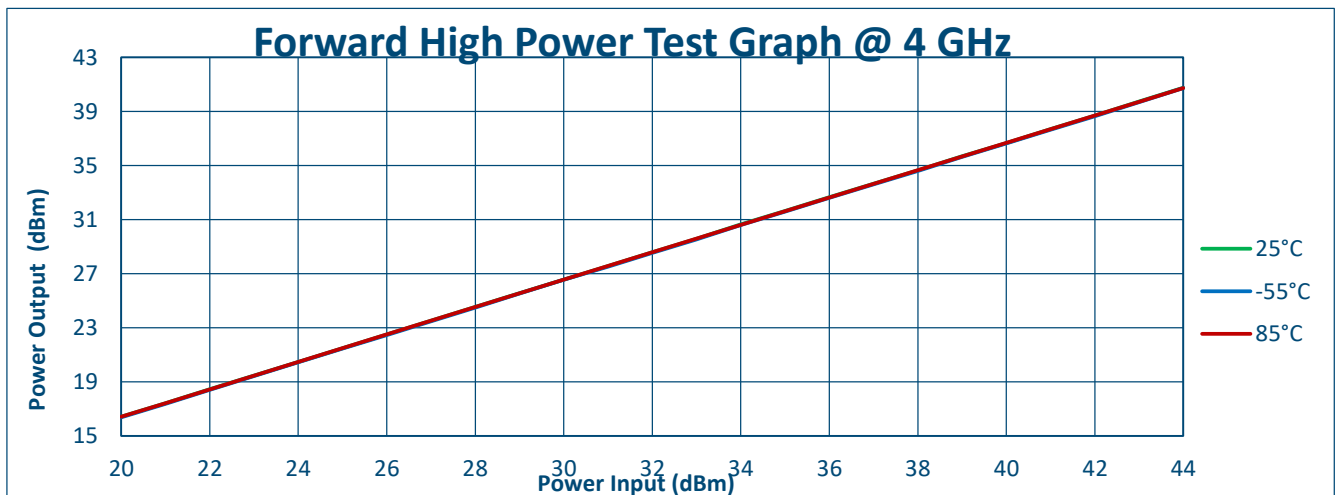
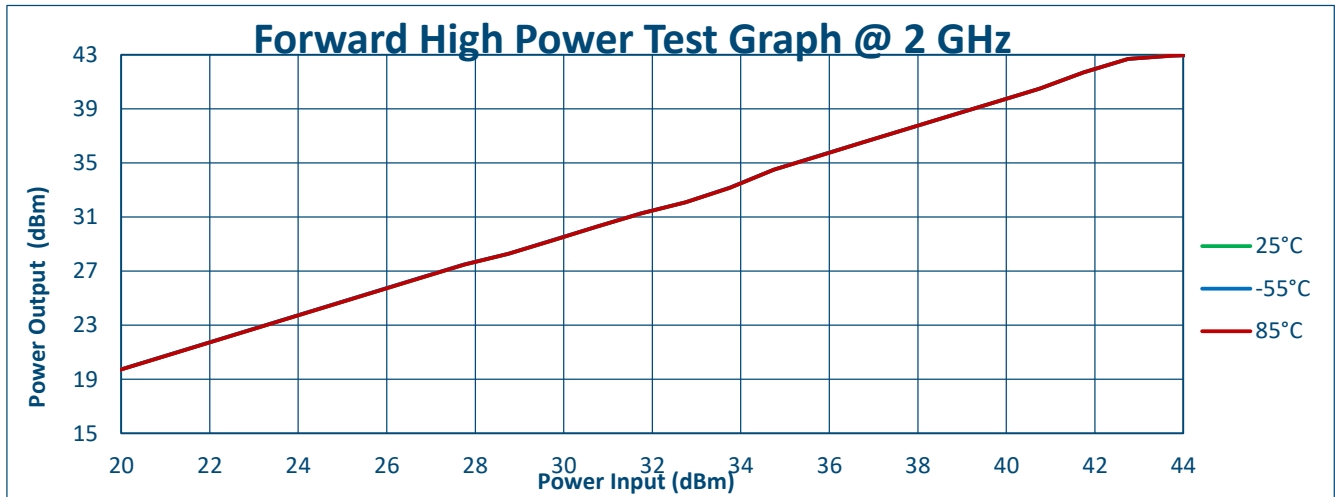


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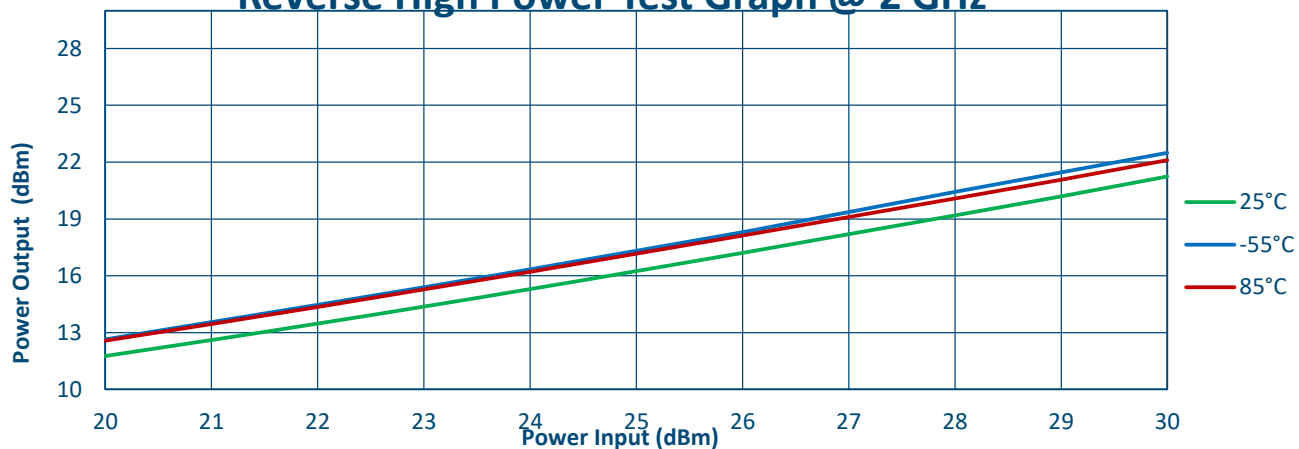


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Reverse High Power Test Graph @ 2 GHz



Reverse High Power Test Graph @ 8 GHz

