

**TYPICAL CHARACTERISTICS
ON
PDC-0R1G18G-10C-SFF-50W**

PMI MODEL NO. PDC-0R1G18G-10C-SFF-50W IS A 0.1 TO 18.0 GHz DIRECTIONAL COUPLER.



Reported By Noor Azhar
Tested By Noor Azhar
Date April 17, 2024

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Email: sales@quanticpmi.com

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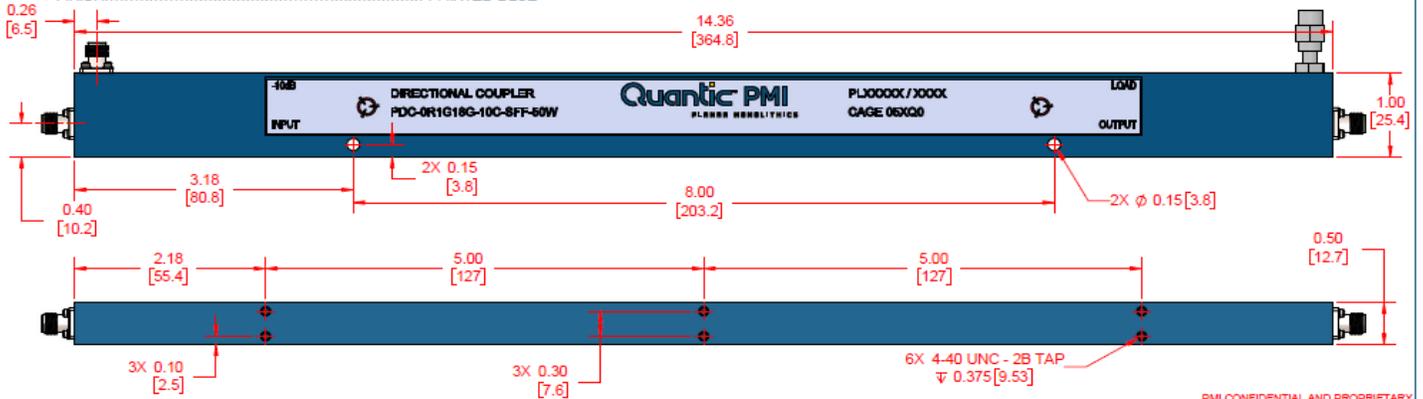
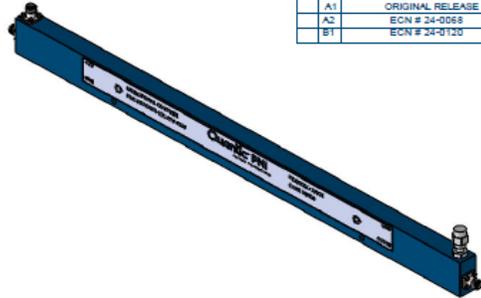
DESCRIPTION:

PMI MODEL NO. PDC-0R1G18G-10C-SFF-50W IS A 0.1 TO 18.0 GHz DIRECTIONAL COUPLER.

SPECIFICATIONS: @ 25°C

- FREQUENCY RANGE:..... 0.1 TO 18.0 GHz
- INSERTION LOSS:..... 3.0 dB MAX (EXCL. COUPLING LOSS 0.46 dB)
- COUPLING FACTOR:..... 10 ±1.0 dB MAX
- COUPLING SENSITIVITY:..... ±1.7 dB MAX
- DIRECTIVITY:..... 10 dB MIN
- VSWR:..... PRIMARY 1.60:1 MAX
SECONDARY 1.60:1 MAX
- POWER HANDLING:..... INCIDENT 30 W MAX
REFLECTED 2 W MAX
- IMPEDANCE:..... 50 Ω
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

FORM	REV	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	1/20/04	
A2		ECN # 24-0068	3/18/04	
B1		ECN # 24-0120	4/29/04	



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
- HUMIDITY:..... UP TO 95%, NON-CONDENSING

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED BY	S AZHAR	1/20/04	OUTLINE	
DESIGNED			PDC-0R1G18G-10C-SFF-50W	
PART NO.	B	05XQ0	REV. NO.	2704804D
SCALE	1:1		SHEET 1 OF 1	

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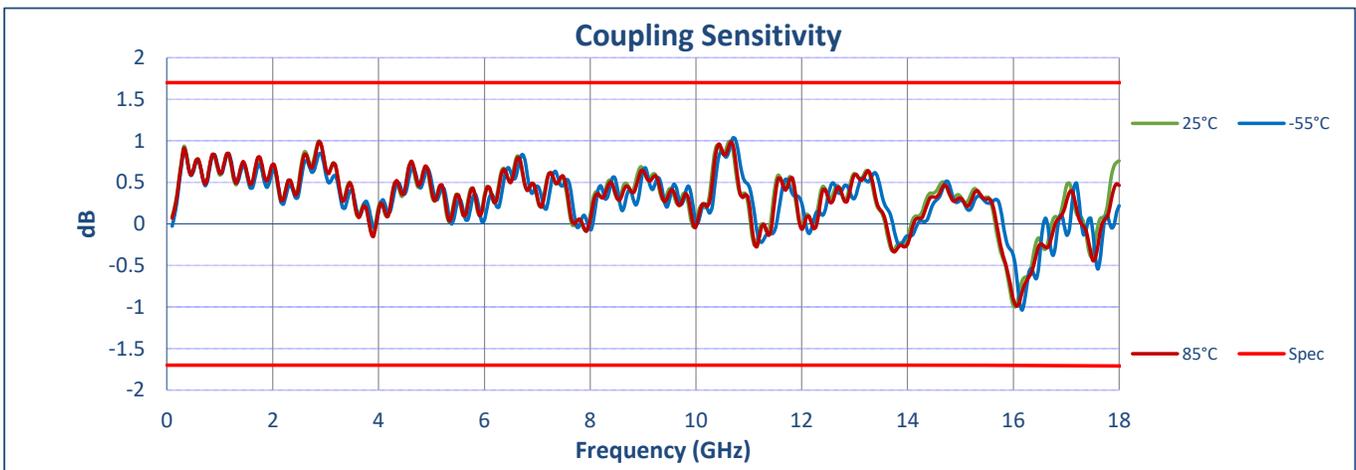
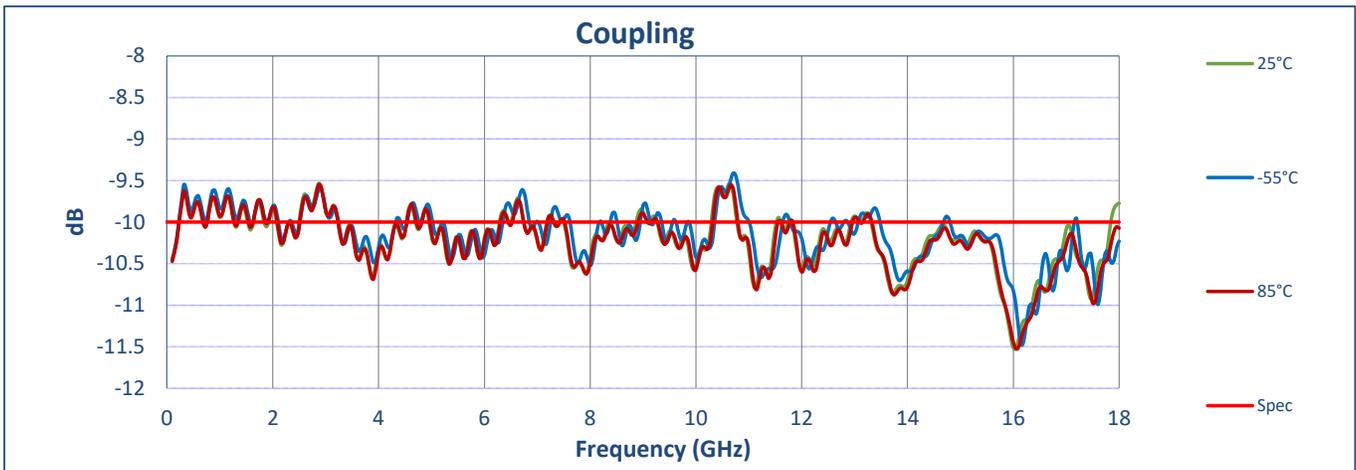
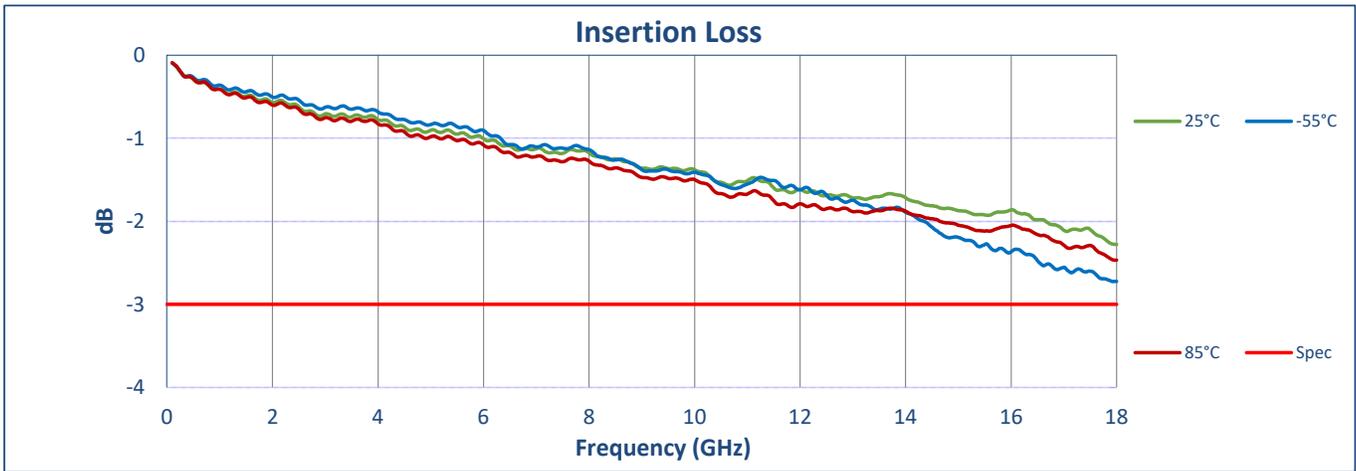
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TEST DATA

TEST ITEM	PARAMETERS	SPECIFIED VALUE @ 25°C	TEST RESULTS		
			25°C	-55°C	85°C
1	Frequency Range	0.1 to 18.0 GHz	0.1 to 18.0 GHz		
2	Insertion Loss	3.0 dB Max (Excl. Coupling Loss 0.46 dB)	2.3 dB	2.7 dB	2.5 dB
3	Coupling Factor	10 ±1.0 dB Max	10.2 dB	10.2 dB	10.2 dB
4	Coupling Sensitivity	±1.7 dB Max	±1 dB	±1.04 dB	±0.99 dB
5	Directivity	10 dB MIN	13.9 dB Min	-0.9 dB Min	10 dB Min
6	VSWR	Primary 1.60:1 Max Secondary 1.60:1 Max	1.31:1 Primary 1.27:1 Secondary	1.39:1 Primary 1.29:1 Secondary	1.31:1 Primary 1.27:1 Secondary
7	Power Handling	Incident 30 W Max Reflected 2W Max	Incident 30 W Reflected 2W	Incident 30 W Reflected 2W	Incident 30 W Reflected 2W

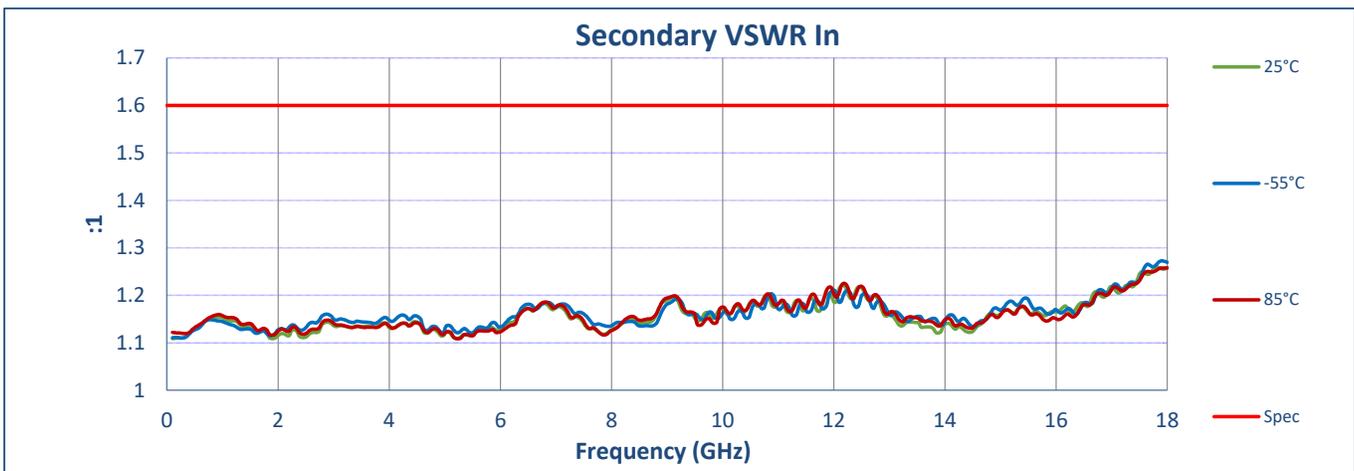
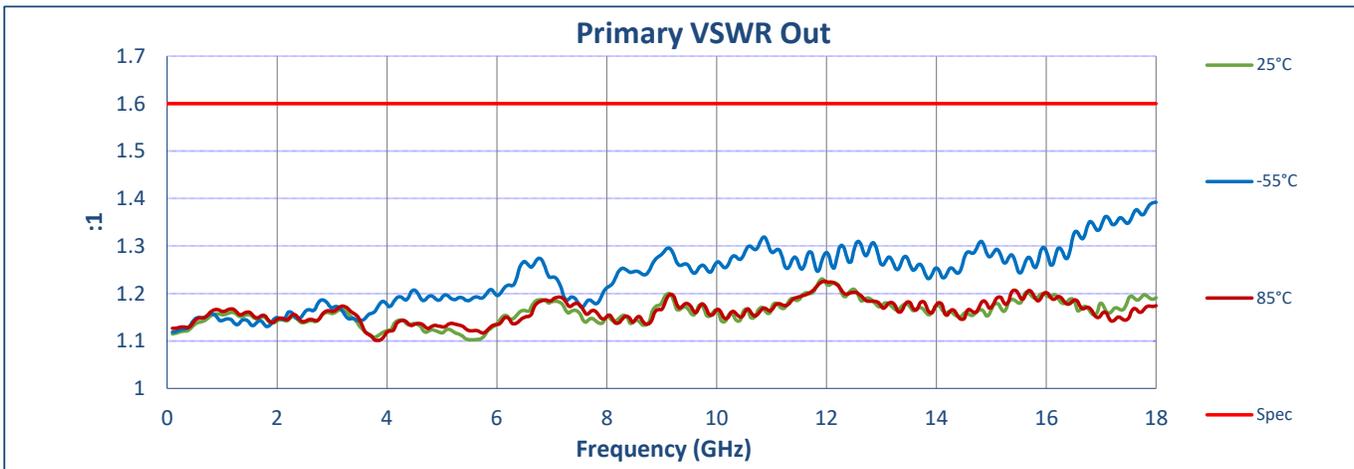
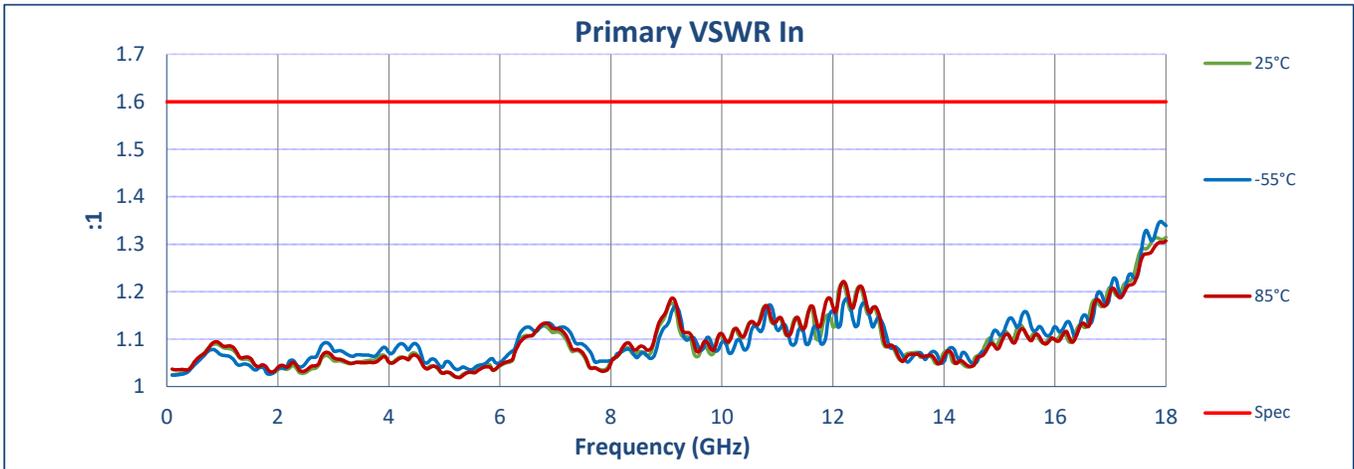
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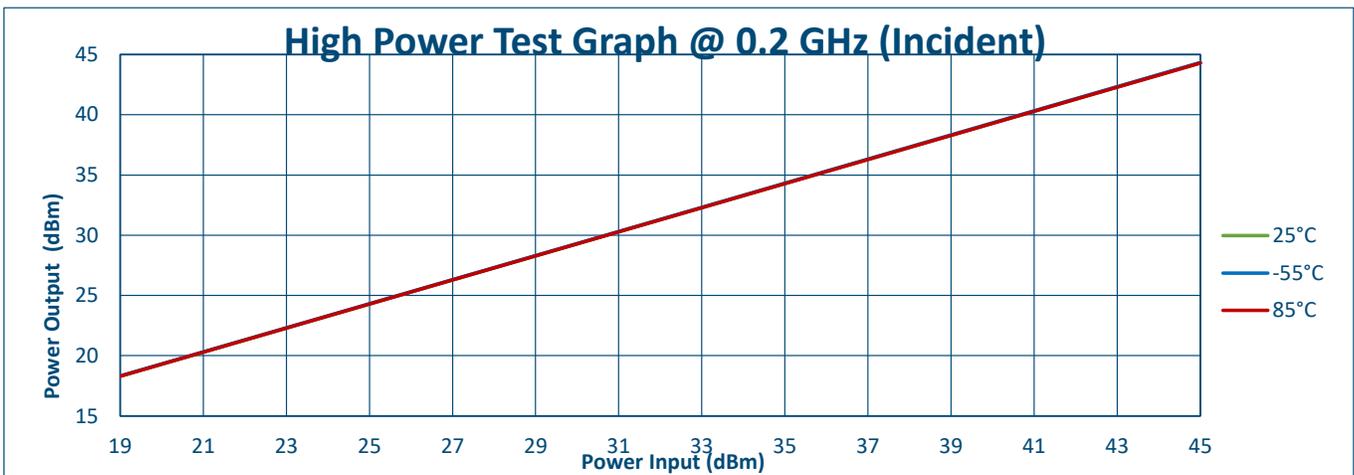
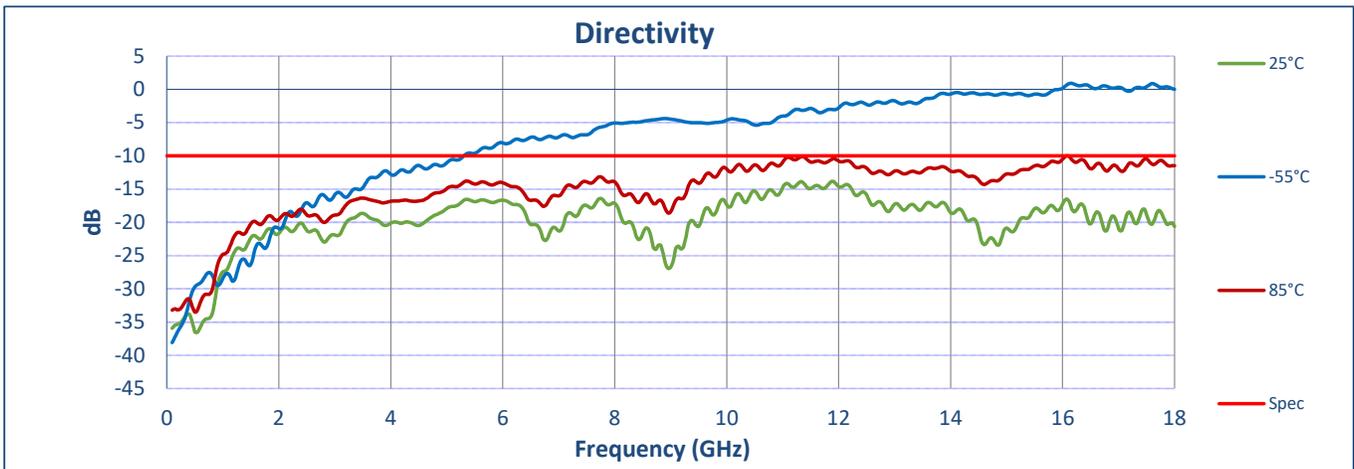
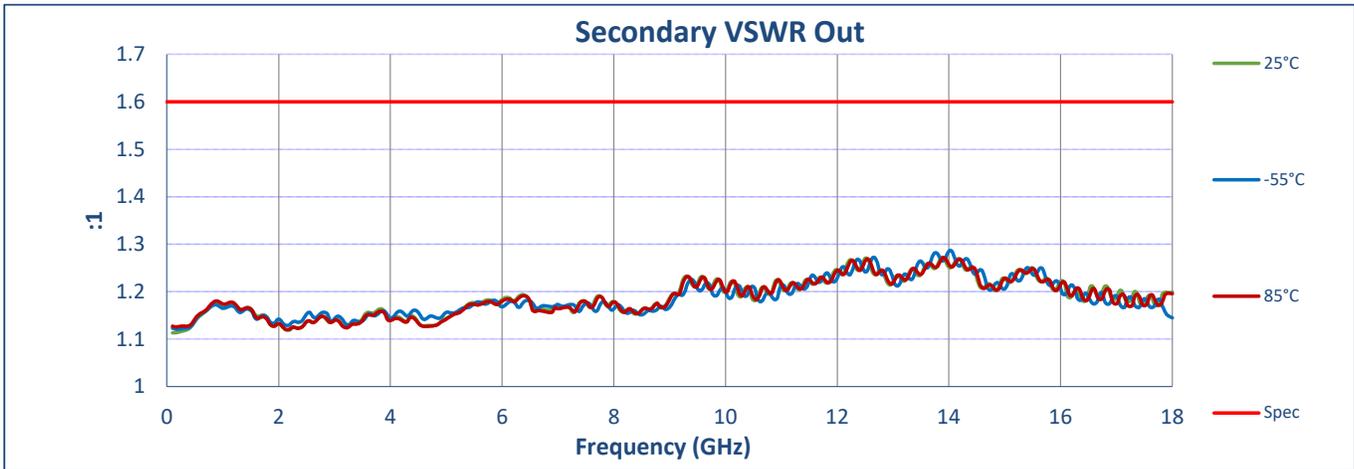
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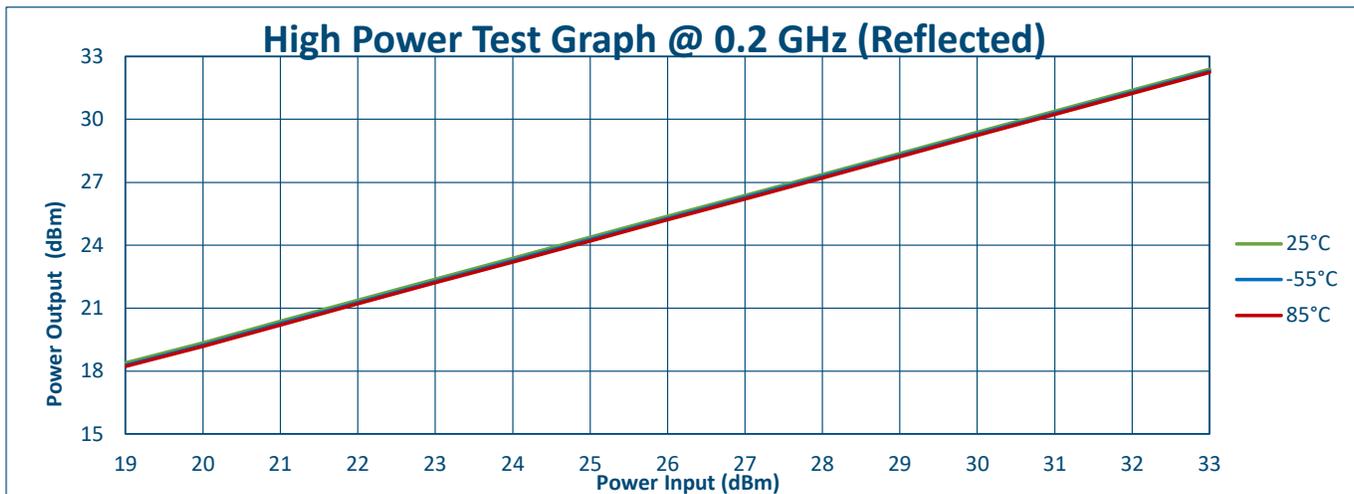
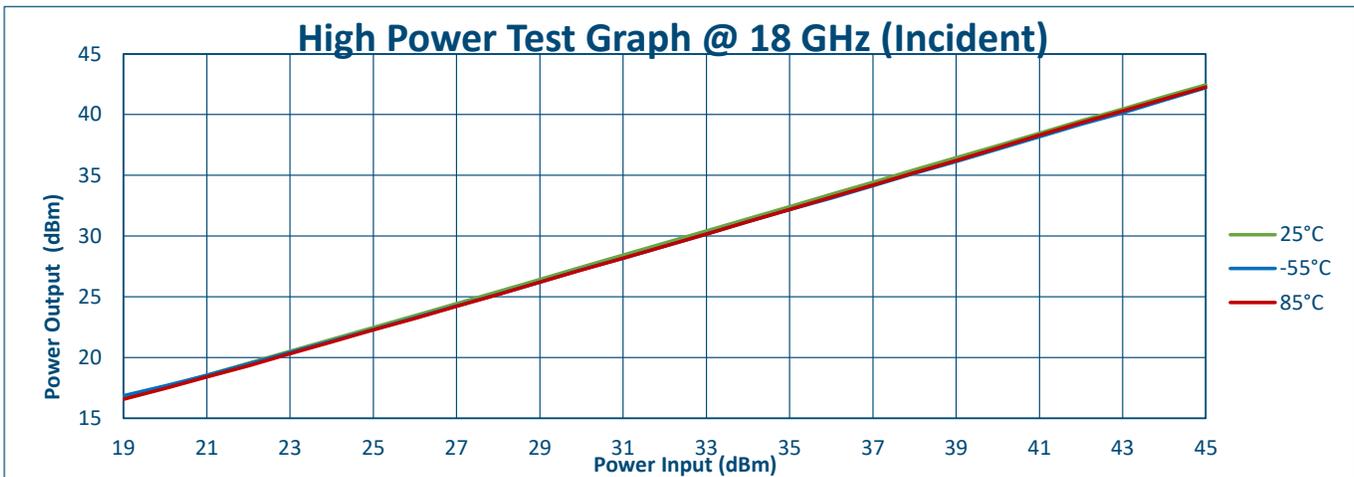
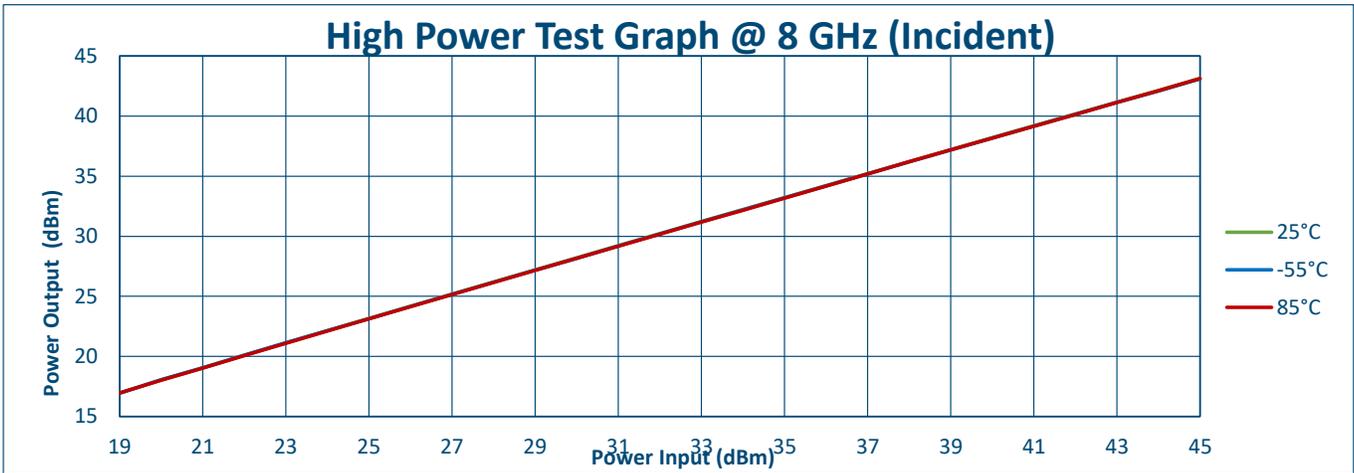


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