

Quantic™ PMI TYPICAL CHARACTERISTICS
PLANAR MONOLITHICS
ON
MA-8D5G10D5G-20DB-SFF

PMI MODEL NUMBER: MA-8D5G10D5G-20DB-SFF IS A 8.5 GHz TO 10.5 GHz MECHANICAL VARIABLE ATTENUATOR. THIS UNIT HAS AN ATTENUATION OF 0 dB TO 20 dB WITH A FLATNESS OF ± 0.5 dB MAX. IT IS SUPPLIED IN A 1.75" x 1.00" x 0.50" HOUSING WITH SMA FEMALE CONNECTORS.



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OUTLINE DRAWING:

DESCRIPTION:

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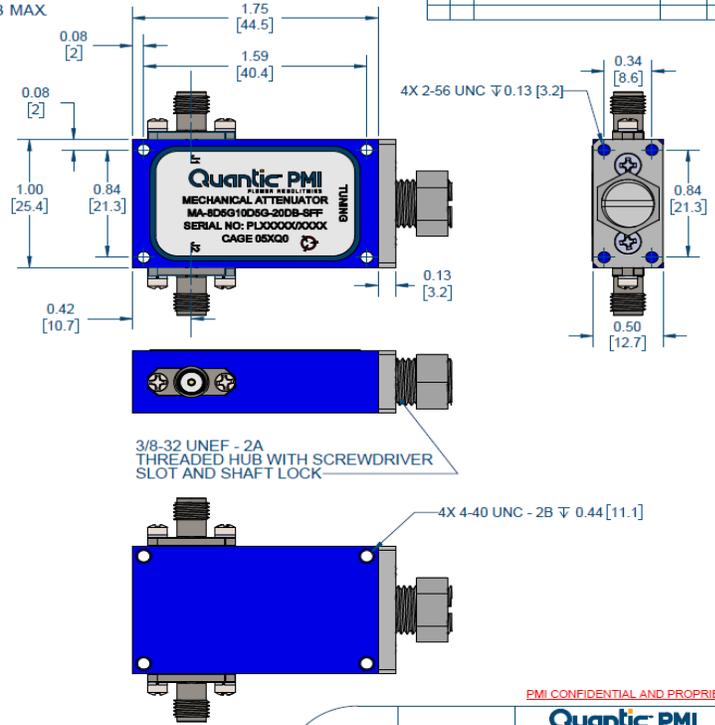
SPECIFICATIONS:

- FREQUENCY RANGE:..... 8.5 GHz TO 10.5 GHz
- ATTENUATION:..... 0-20 dB
- VSWR:..... 1.5:1 MAX
- FLATNESS:..... ±0.5 dB MAX
- INSERTION LOSS:..... 0.5 dB MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -54°C TO +55°C (OPERATING)
-57°C TO +85°C (STORAGE)
- HUMIDITY:..... 5% TO 95%
- ALTITUDE:..... 30,000 ft MAX
- VIBRATION:..... MIL-E-5400T FIGURE 2 CURVE II (2G)
- SHOCK:..... 15G, 11ms (6-AXIS)

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



ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	8/29/2018	

APPROVALS		DATE
DESIGNED	D. HOSCHAR	
REWORKED		
ISSUED		

(UNLESS OTHERWISE SPECIFIED) DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES XX ± .XX		TITLE: MA-8D5G10D5G-20DB-SFF FROM NO: 05XG0 DWG NO: 27052000 SCALE: 1:1	REV: A1 SHEET 1 OF 1
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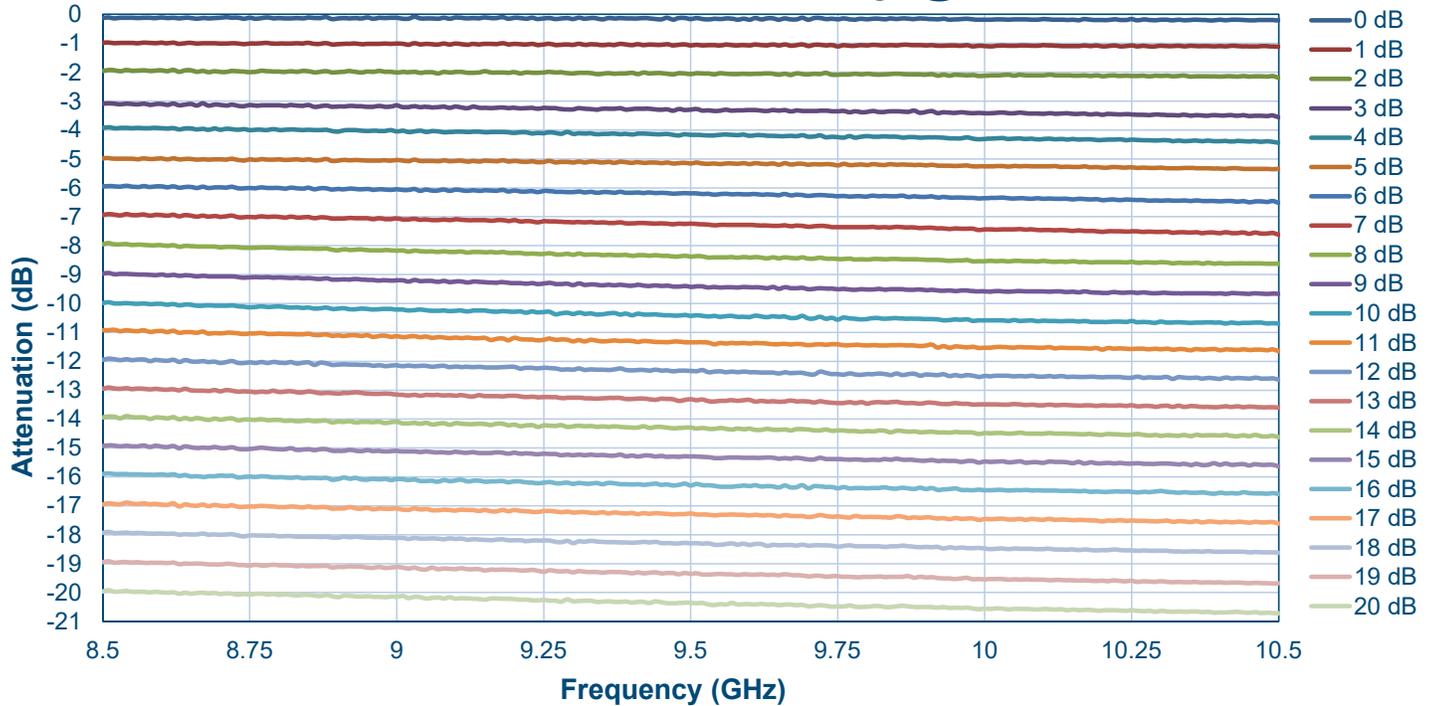
PMI CONFIDENTIAL AND PROPRIETARY
Quantic PMI
PLANAR MONOLITHICS
7309-A GROVE ROAD FREDERICK, MD 21704 USA
WEB: WWW.QUANTICPMI.COM

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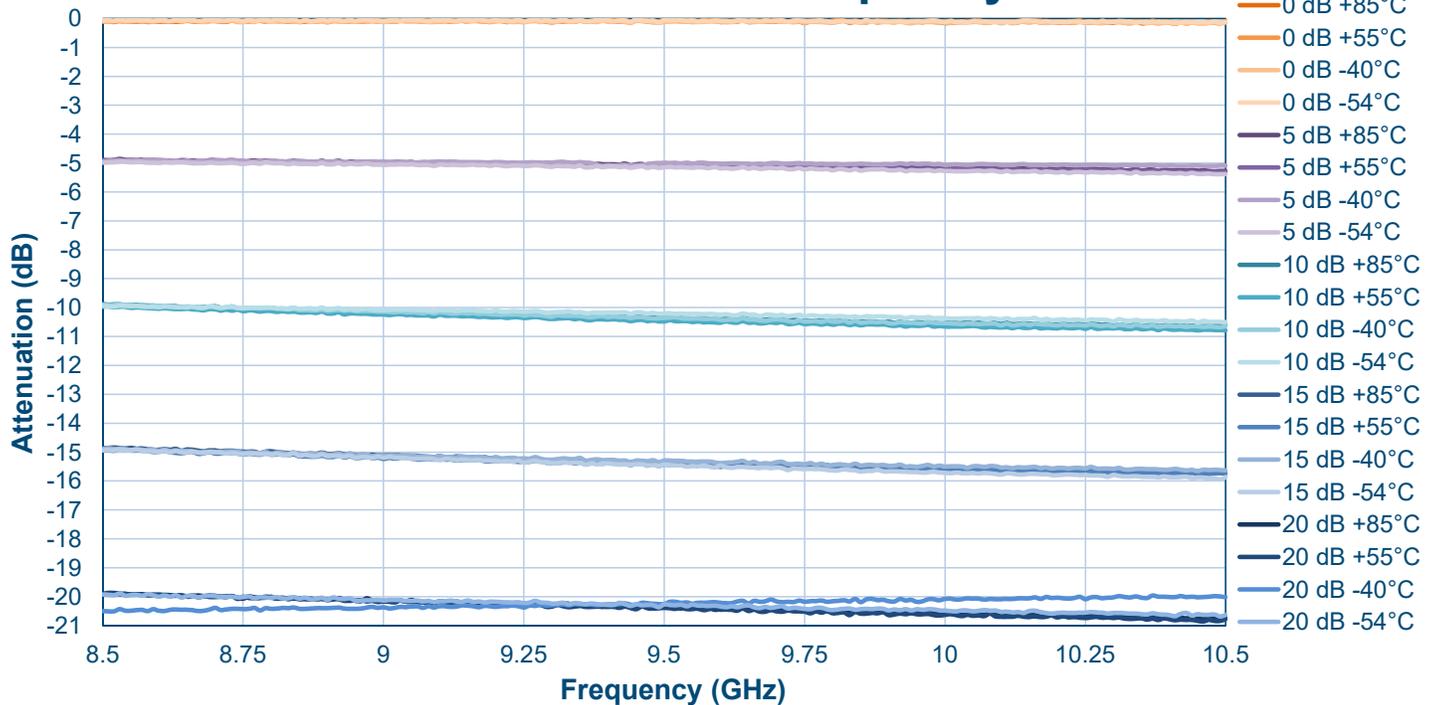
TEST DATA:

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS				
			-54°C	-40°C	+25°C	+55°C	+85°C
1	Frequency Range:	8.5 GHz to 10.5 GHz	8.5 GHz to 10.5 GHz				
2	Attenuation:	0 to 20 dB	0 to 20 dB See Graphs				
3	Insertion Loss:	0.5 dB Max.	0.17 dB See Graph	0.16 dB See Graph	0.21 dB See Graph	0.15 dB See Graph	0.15 dB See Graph
4	VSWR:	1.5:1 Max.	1.33:1 See Graph	1.32:1 See Graph	1.46:1 See Graph	1.5:1 See Graph	1.49:1 See Graph
5	Flatness:	±0.5 dB Max.	±0.47 dB See Graph	±0.47 dB See Graph	±0.4 dB See Graph	±0.46 dB See Graph	±0.43 dB See Graph

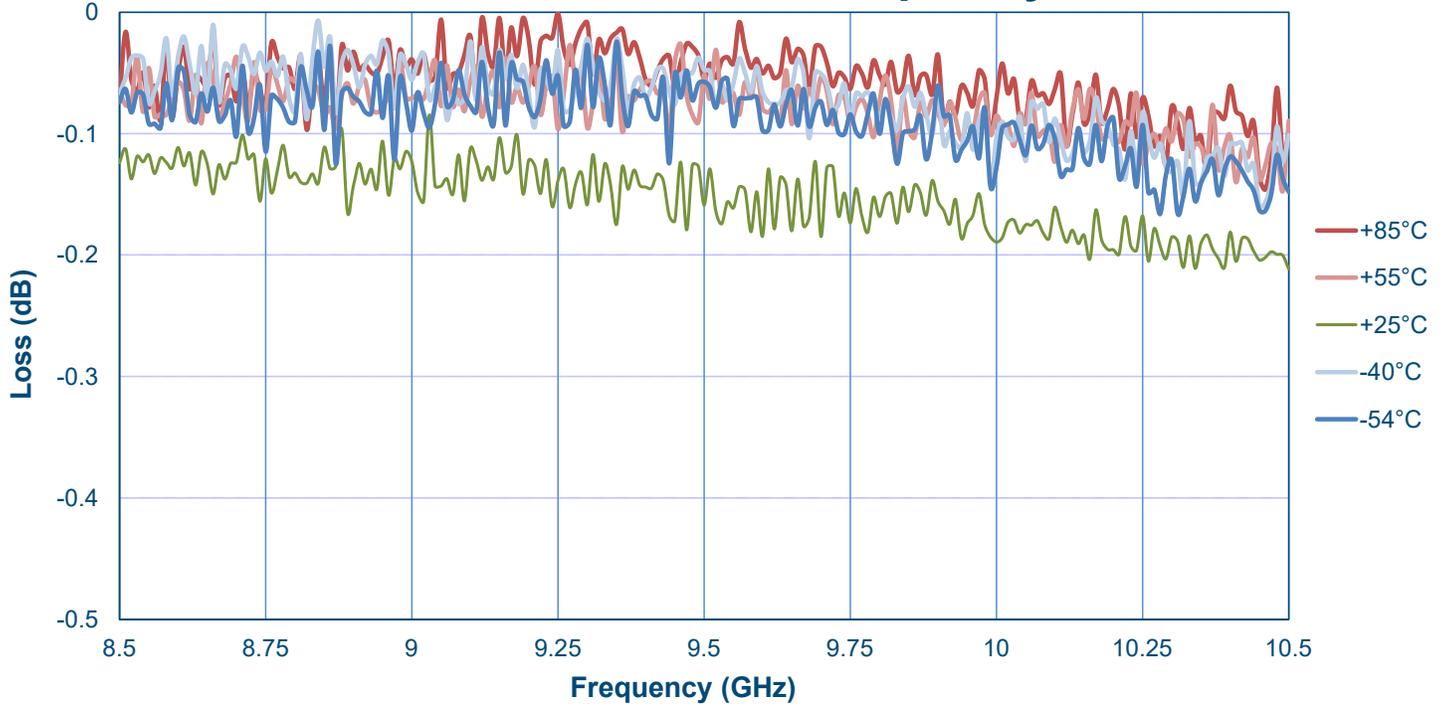
Attenuation VS. Frequency @ +25°C



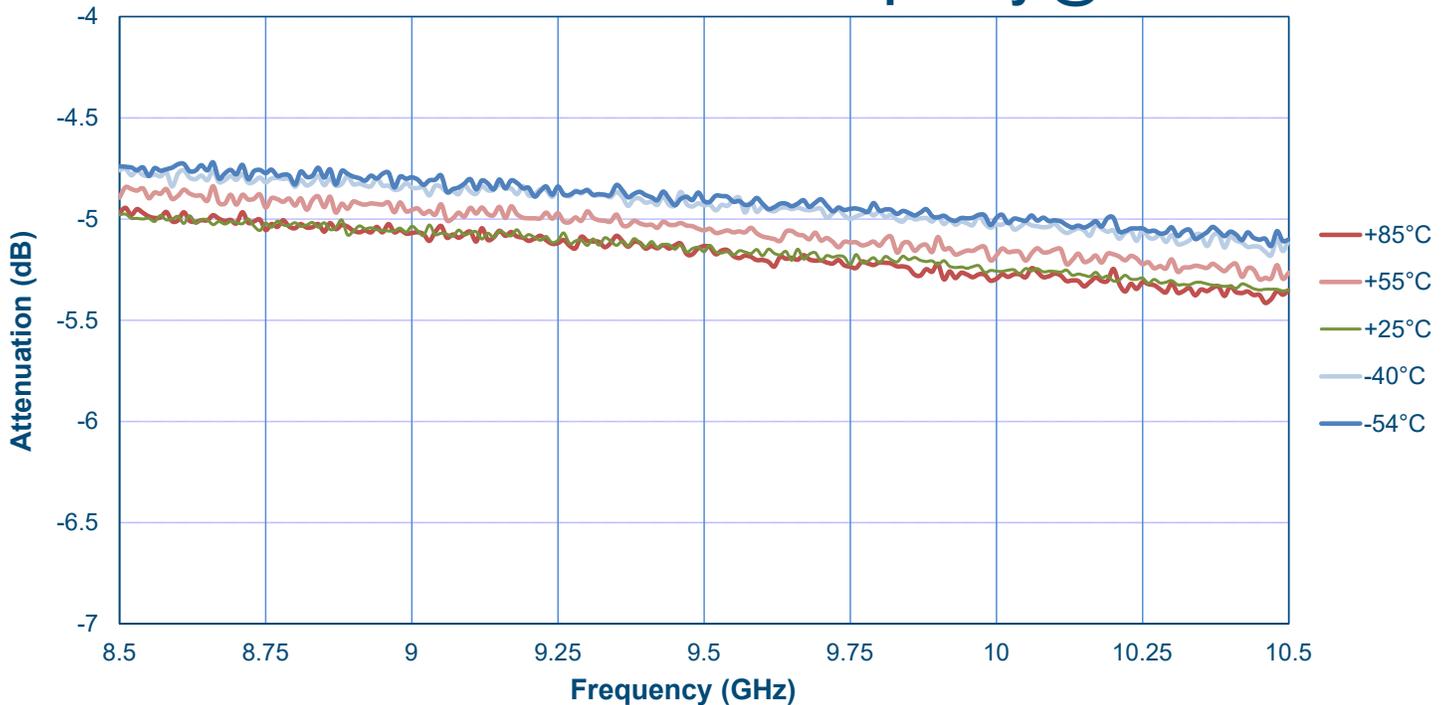
Attenuation VS. Frequency



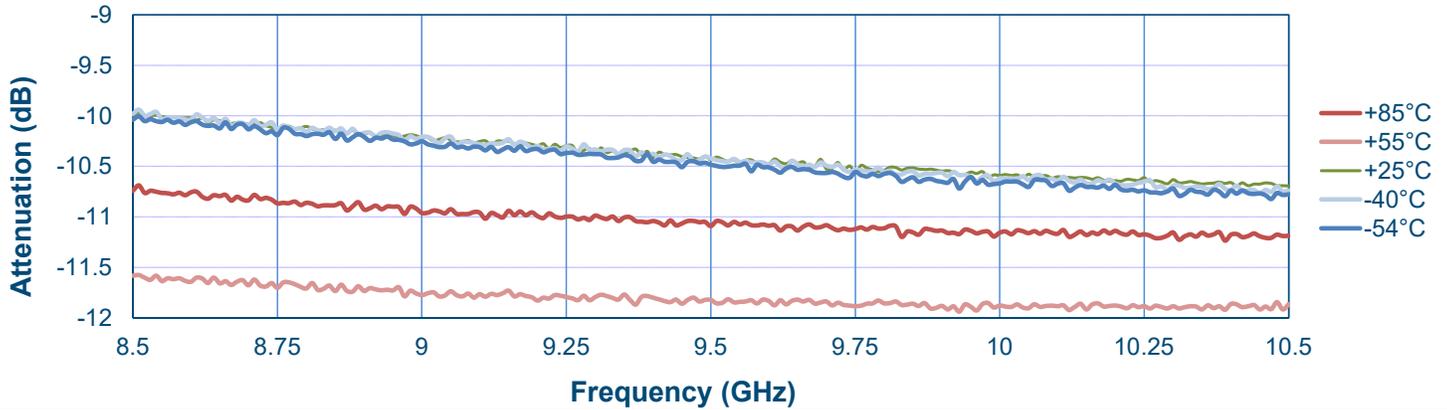
Insertion Loss VS. Frequency



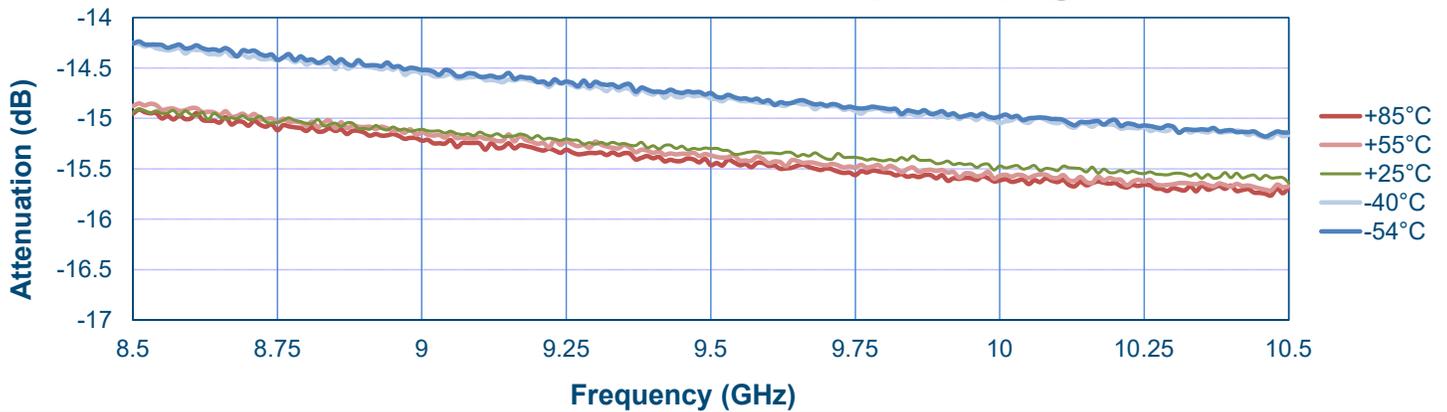
Attenuation Deviation VS. Frequency @ 5 dB



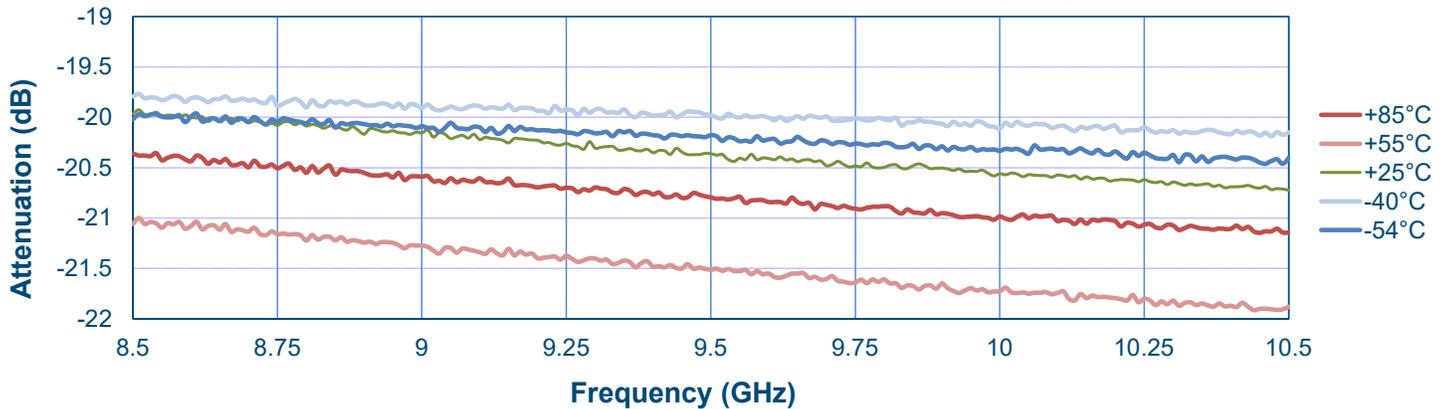
Attenuation Deviation VS. Frequency @ 10 dB



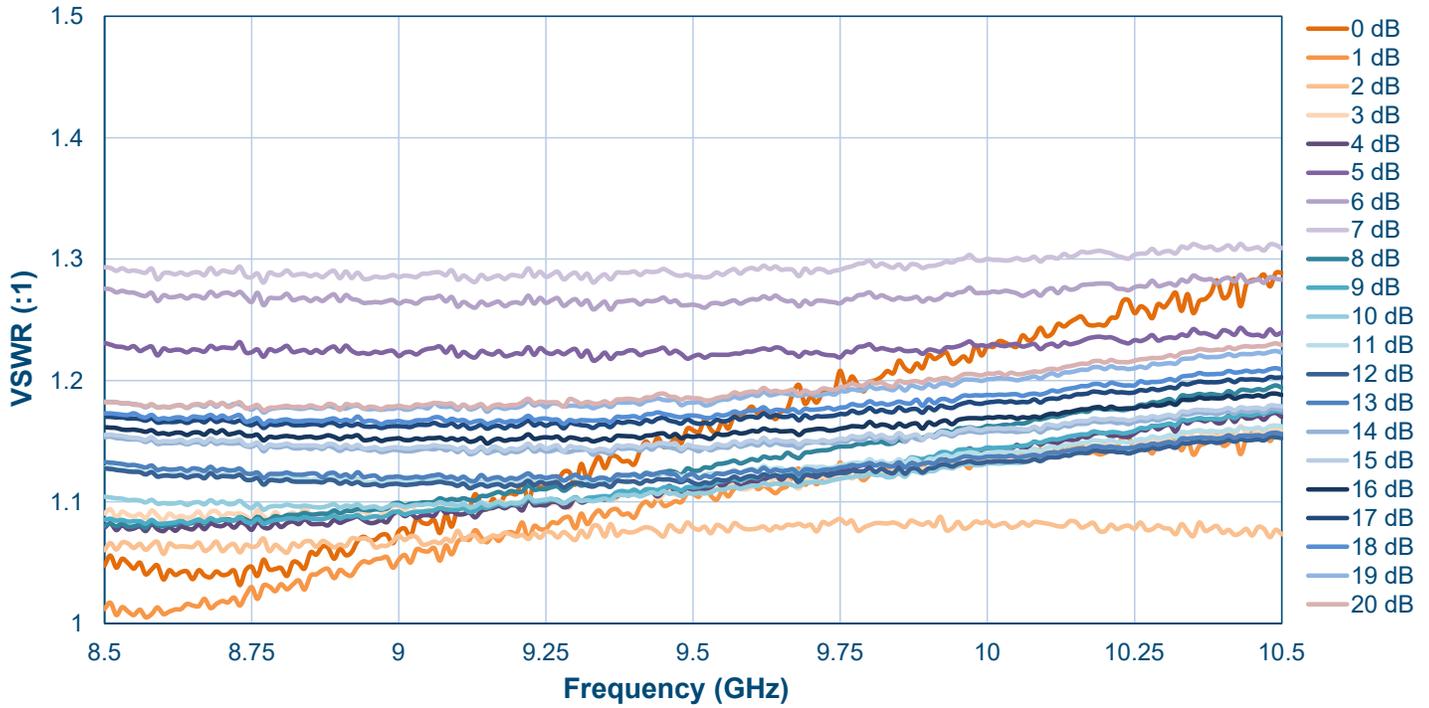
Attenuation Deviation VS. Frequency @ 15 dB



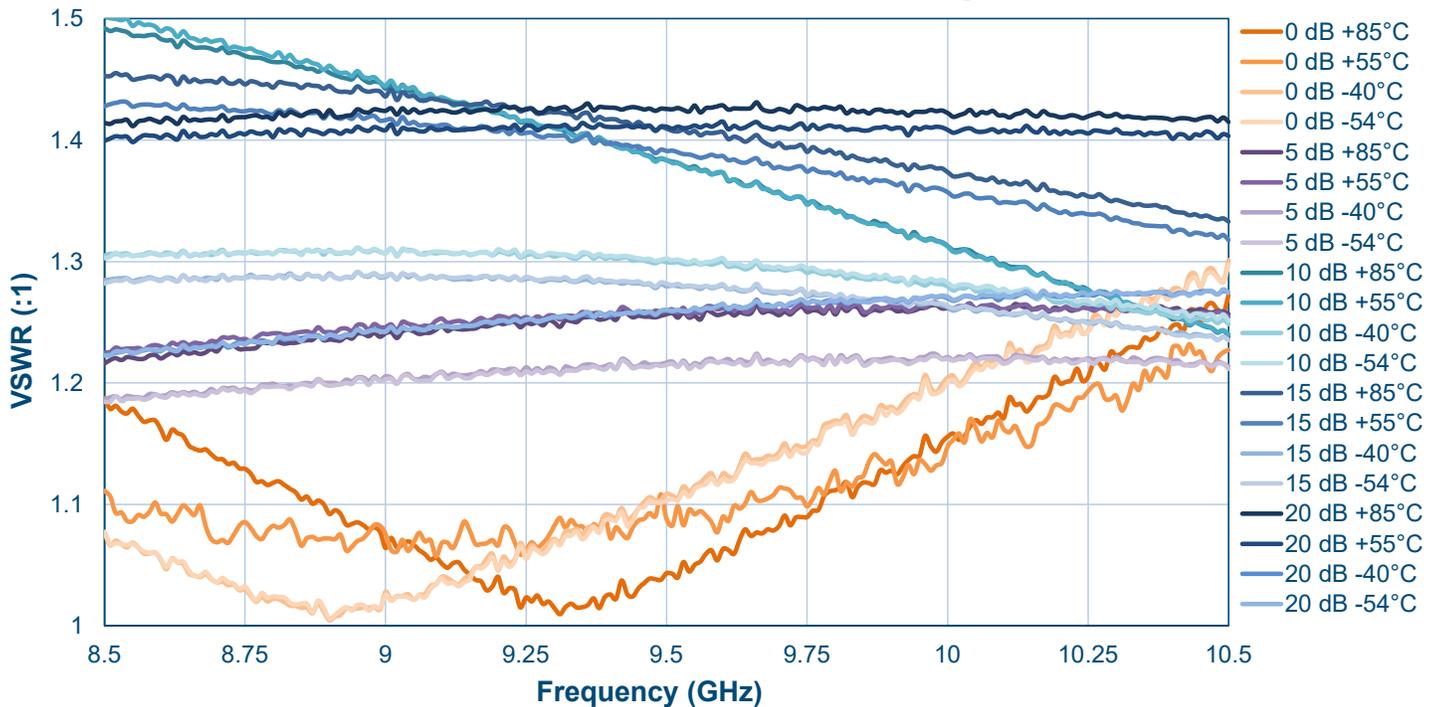
Attenuation Deviation VS. Frequency @ 20 dB



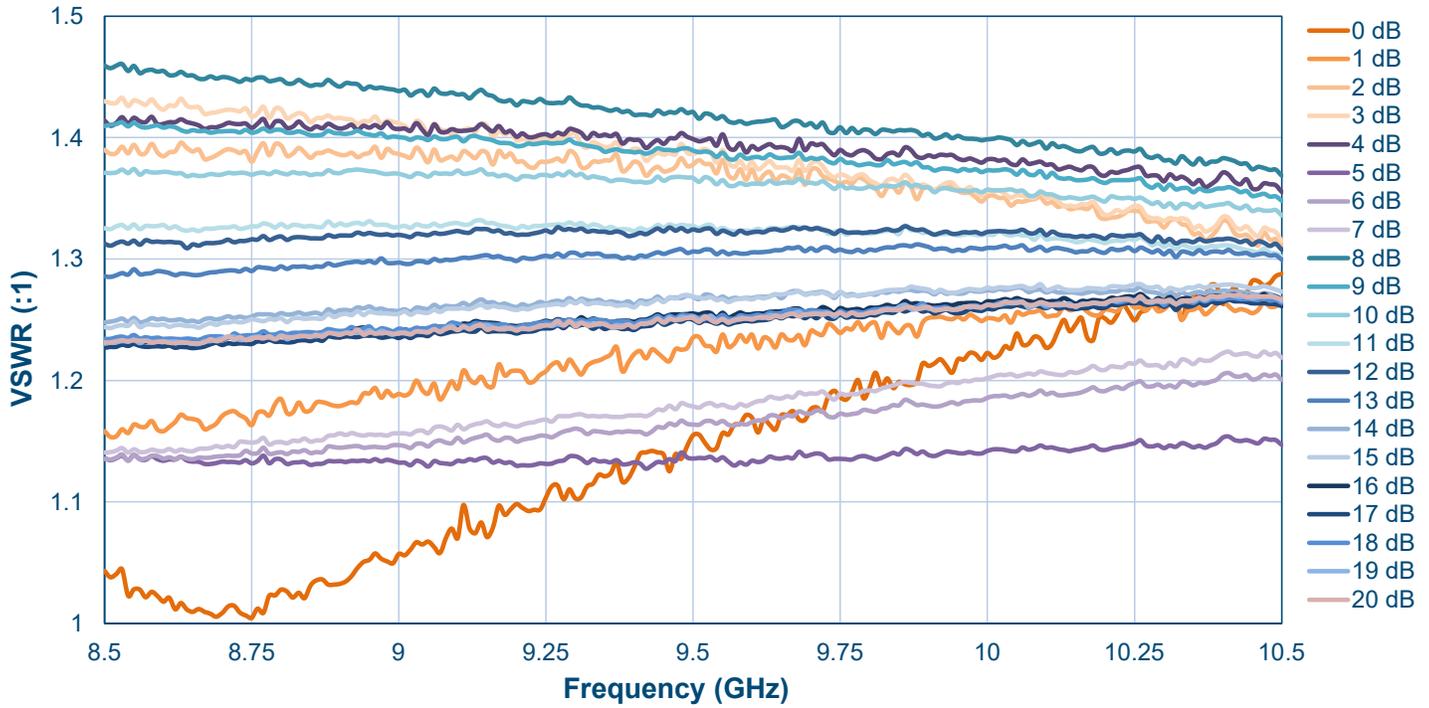
J1 VSWR VS. Frequency @ 25°C



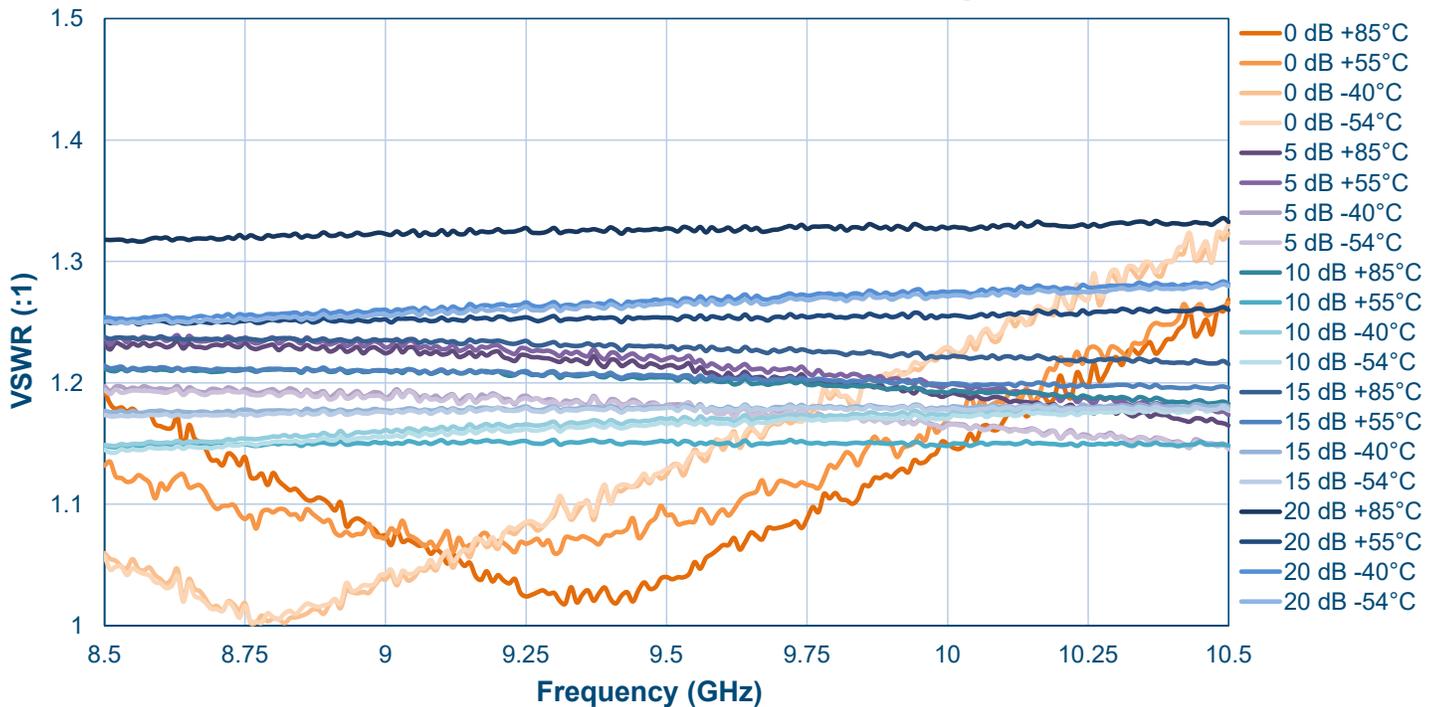
J1 VSWR VS. Frequency



J2 VSWR VS. Frequency @ +25°C



J2 VSWR VS. Frequency



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