

**TYPICAL CHARACTERISTICS
ON
PCH-180-1G1R5G-SFF**

PMI MODEL NO. PCH-180-1G1R5G-SFF IS A 180 DEGREE HYBRID COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 1.0 TO 1.5 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 0.6 dB AND A MINIMUM ISOLATION OF 20 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.



Reported By Noor Azhar
Tested By Noor Azhar
Date November 10, 2023

7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@quanticpmi.com

**TYPICAL CHARACTERISTICS
ON
PCH-180-1G1R5G-SFF
PRODUCT FEATURE**

DESCRIPTION:

PMI MODEL NO. PCH-180-1G1R5G-SFF IS A 180 DEGREE HYBRID COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 1.0 TO 1.5 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 0.35 dB AND A MINIMUM ISOLATION OF 20 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

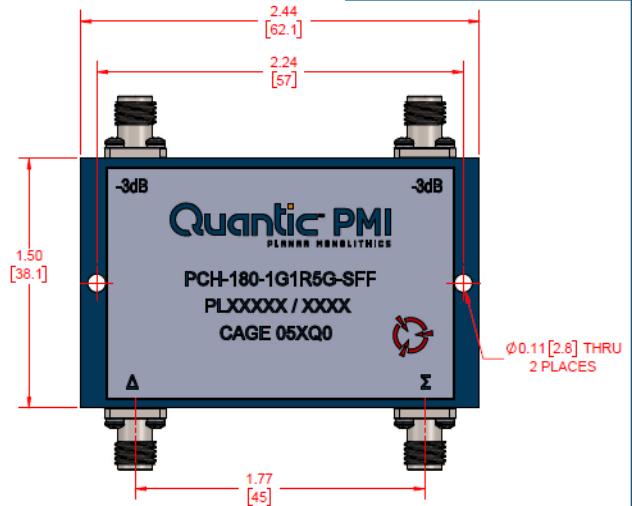
SPECIFICATIONS:

- FREQUENCY RANGE:..... 1.0 TO 1.5 GHz
- NOMINAL SPLIT:..... 3.01 dB
- INSERTION LOSS:..... 0.6 dB MAXIMUM
- ISOLATION:..... 20 dB MINIMUM
- VSWR:..... 1.25:1 MAXIMUM
- AMPLITUDE BALANCE:..... ±0.3 dB MAXIMUM
- PHASE BALANCE:..... ±3° MAXIMUM
- POWER HANDLING:..... AVERAGE: 20 W MAXIMUM
PEAK: 1 kW MAXIMUM
- IMPEDANCE:..... 50 Ω
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

ENVIRONMENTAL RATINGS:

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

DATE	DESCRIPTION	DATE	APPROVED
A1	ORIGINAL RELEASE		
B1	ECN # 23-0224		



PMI CONFIDENTIAL AND PROPRIETARY

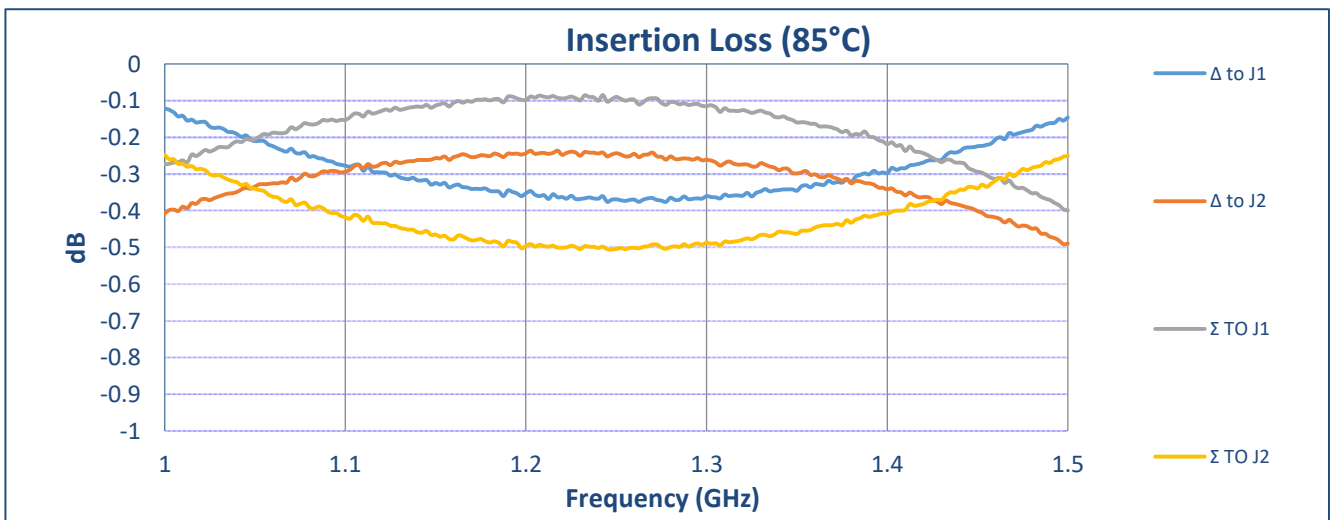
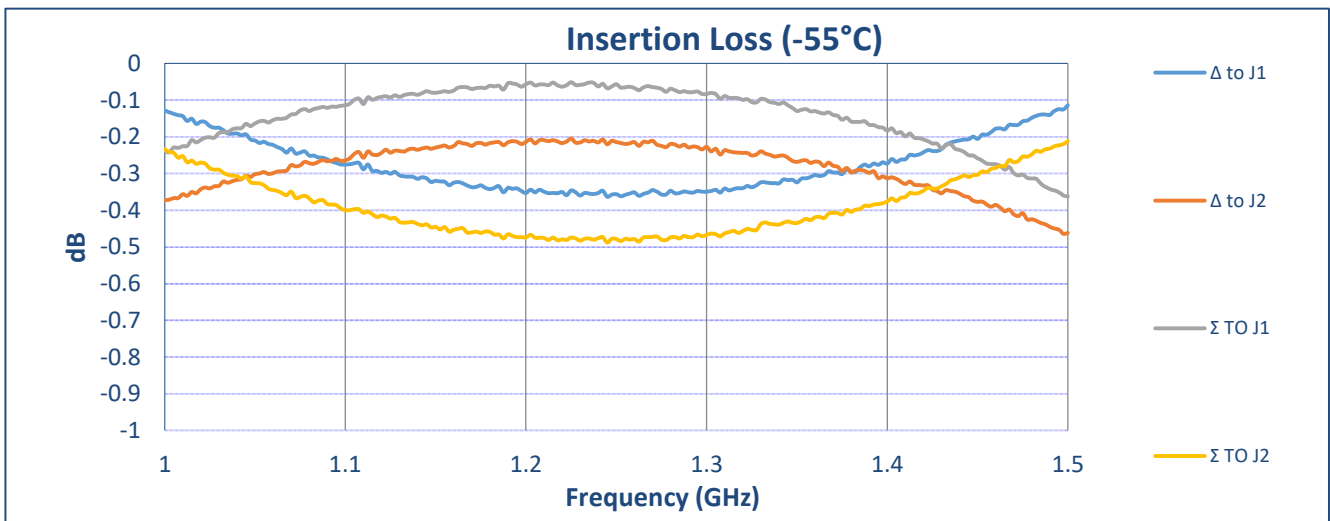
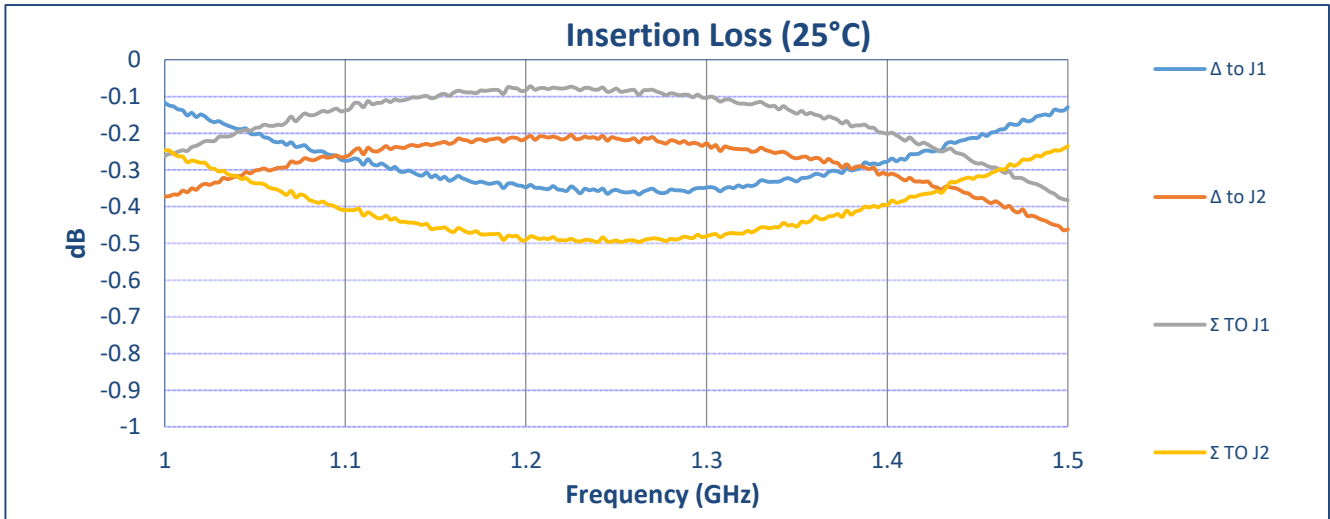
<small>QUANTIC PMI SPECIAL OPERATIONS TELEPHONE: 301-662-5019 FACSIMILE: 301-662-1731 JUL 2 2008</small>		<small>PART NO:</small> <small>APPROVALS:</small> <small>DATE:</small>	<small>7309-A GROVE ROAD FREDERICK, MD 21704-5014 USA TEL: 301-662-5019 FAX: 301-662-1731 WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM</small>
<small>MATERIAL:</small> <small>REVISION:</small>	<small>DESIGN:</small> <small>REVISION:</small>	<small>DATE:</small> <small>APPROVED:</small>	<small>TITLE:</small> PCH-180-1G1R5G-SFF
<small>NEXT ASSEMBLY:</small> <small>USED ON:</small>	<small>DESIGN:</small> <small>REVISION:</small>	<small>REV:</small> B	<small>PCPN NO.:</small> 27047480
<small>APPLICATION:</small>	<small>SCALE:</small> Z:1	<small>OUTLINE</small>	<small>REV:</small> B1

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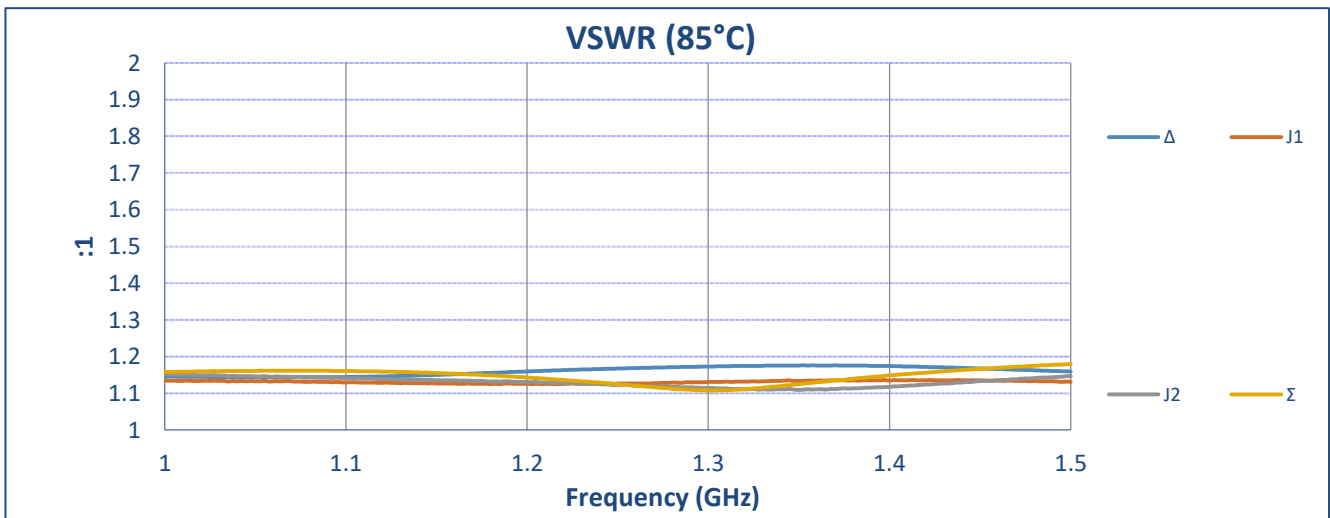
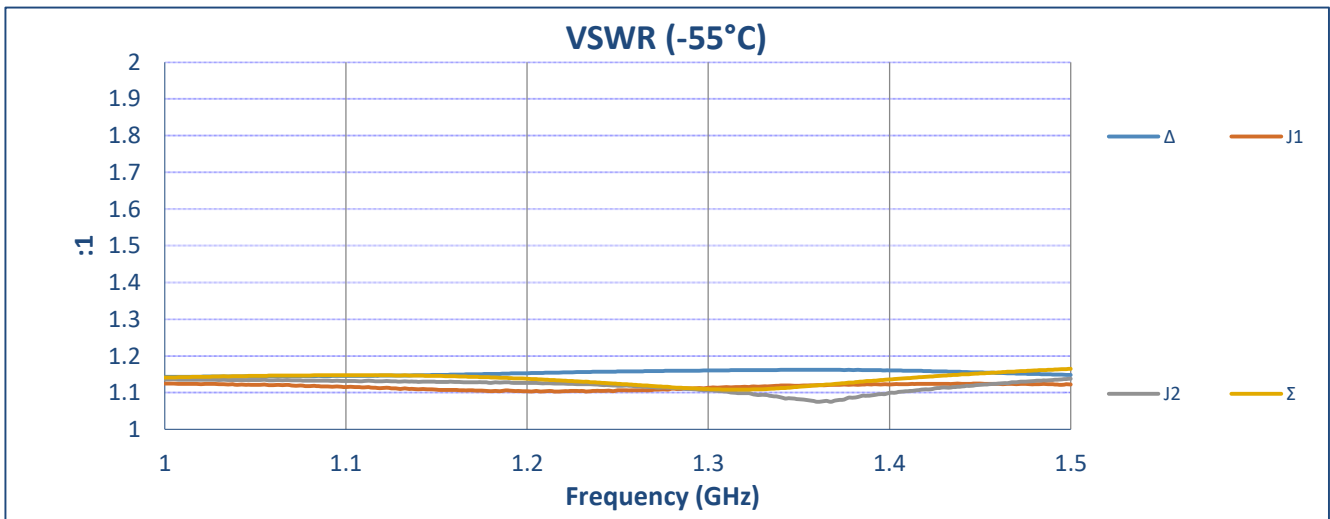
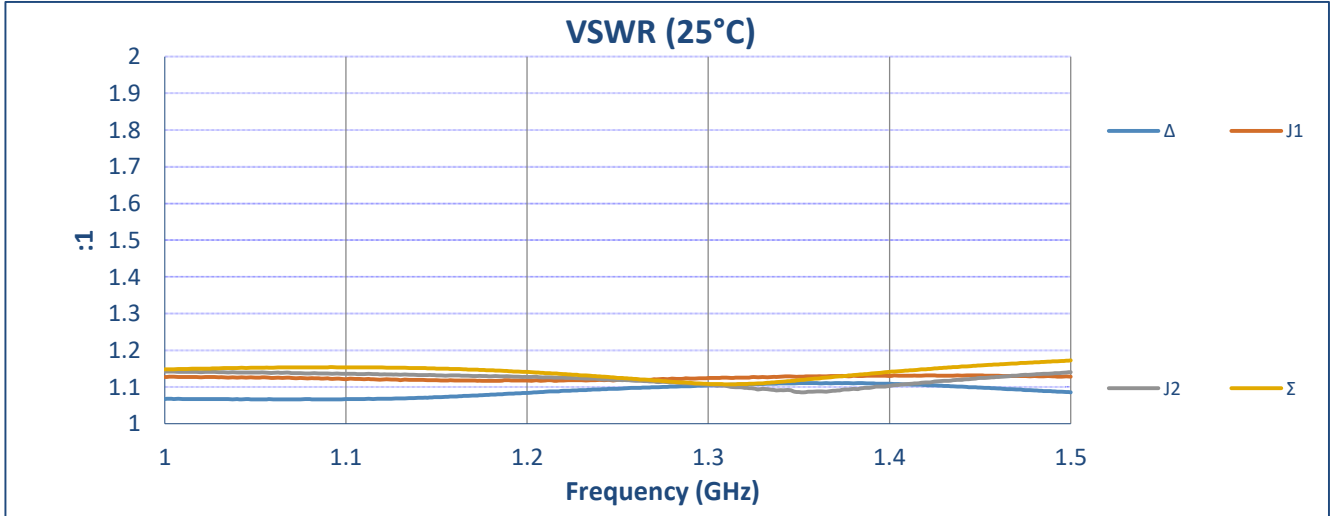
TEST DATA

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-55°C	85°C
1	Frequency Range	1.0 GHz to 1.5 GHz	1.0 GHz to 1.5 GHz		
2	Insertion Loss	0.6 dB Max.	0.497 dB	0.489 dB	0.505 dB
3	VSWR: In/Out	1.25:1 Max.	1.17 :1	1.17 :1	1.18 :1
4	Isolation	20 dB Min.	31.3 dB	30.7 dB	31.9 dB
5	Phase Balance	±3° Max	±1.04°	±1.2°	±1.1°
6	Amplitude Balance	±0.3 dB Max.	±0.21 dB	±0.22 dB	±0.2 dB
7	Power Handling	20 W Max. 1kW Peak	20 W CW TESTED	20 W CW TESTED	20 W CW TESTED

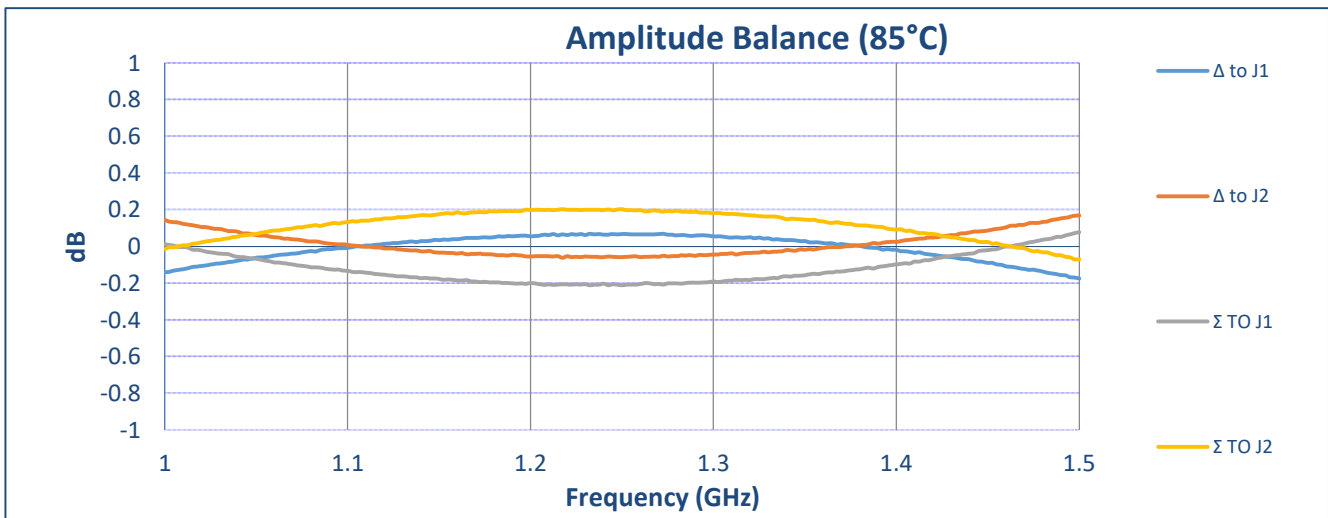
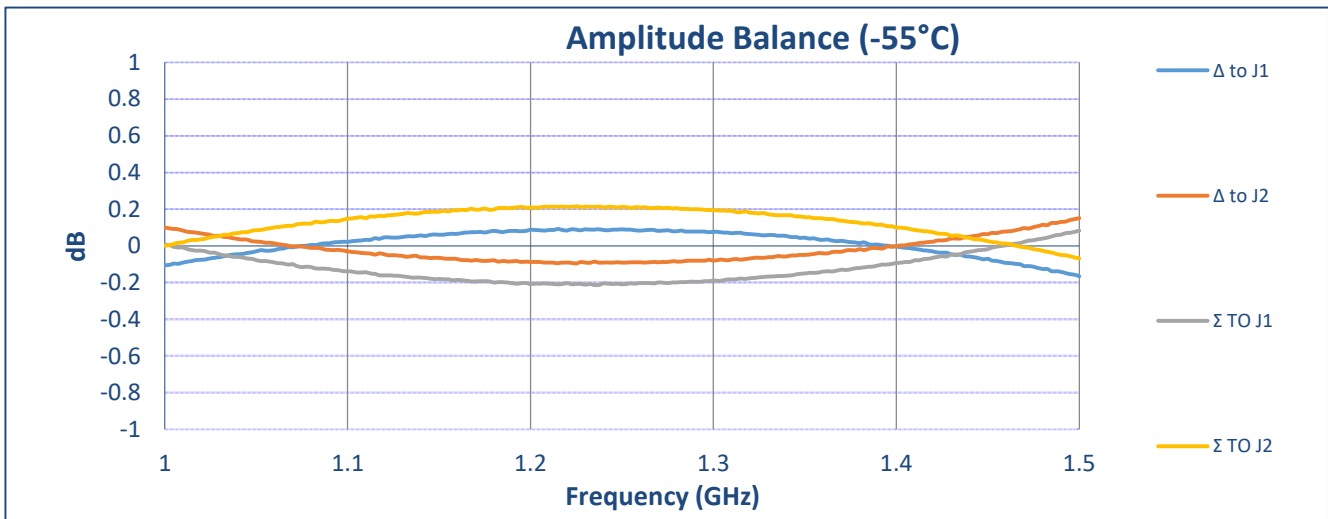
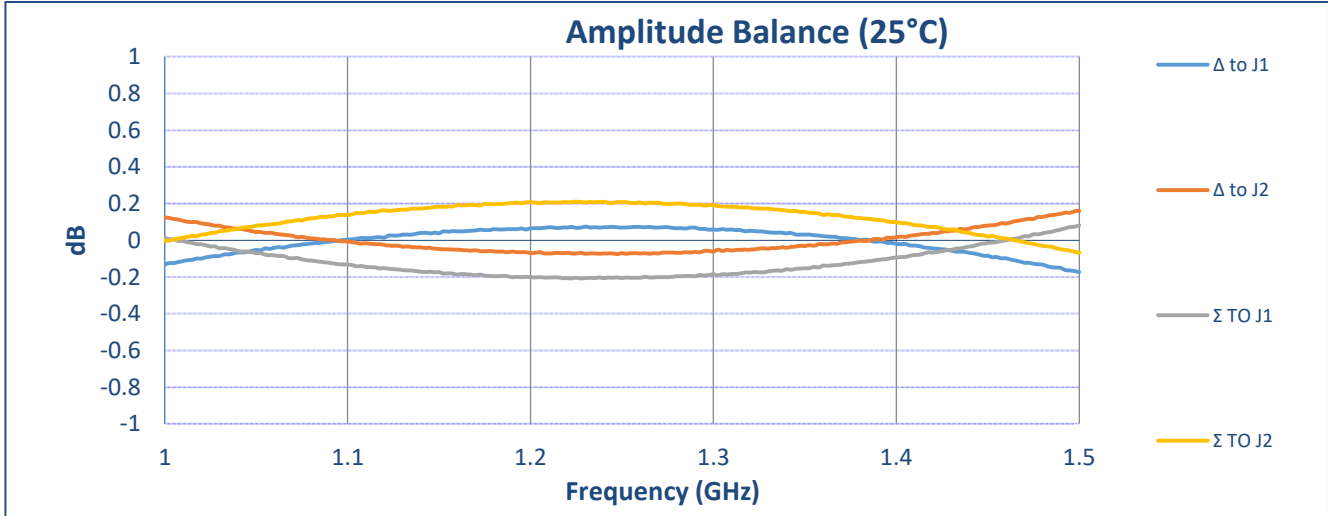
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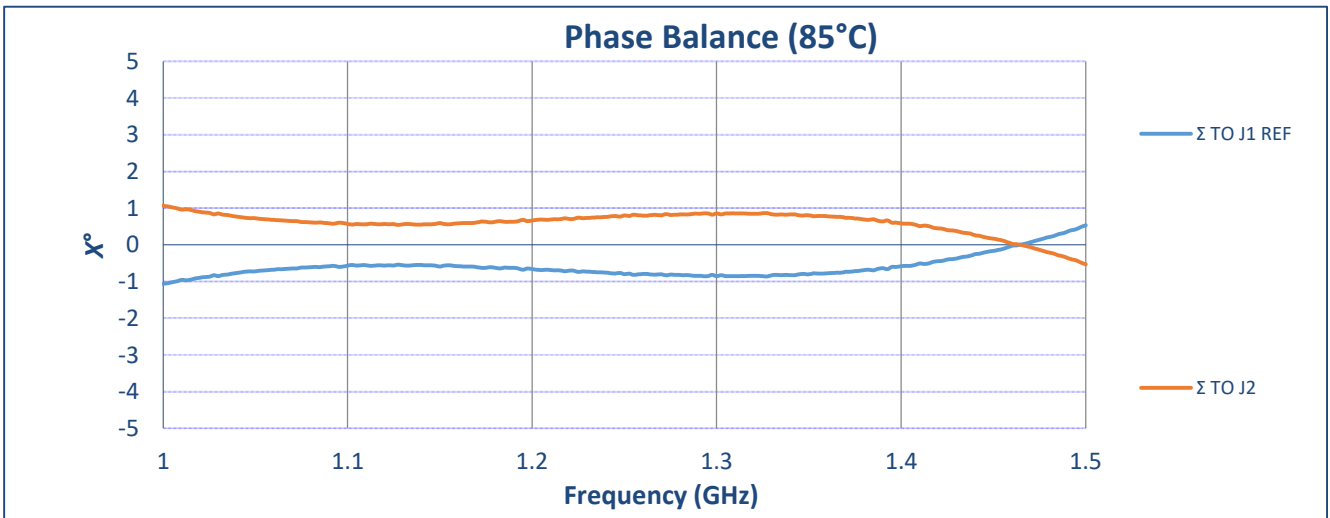
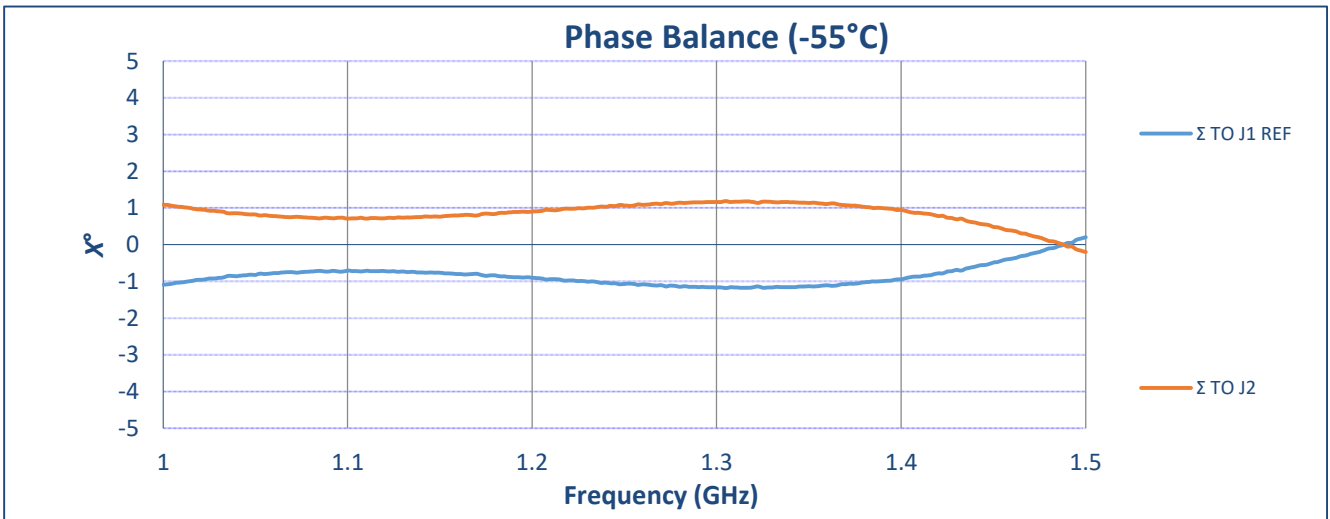
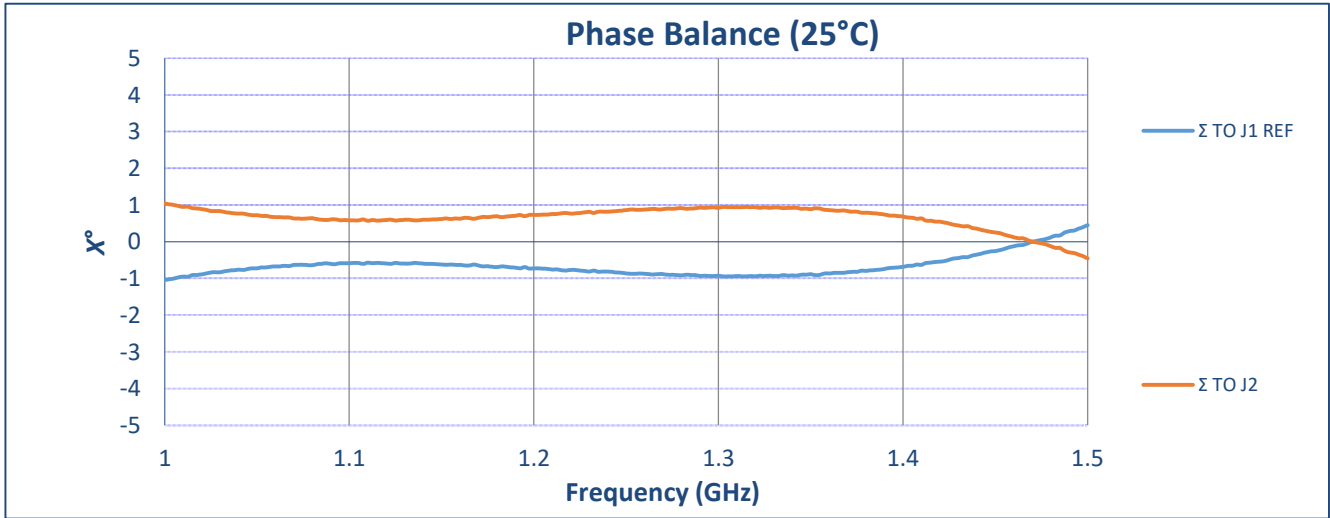
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