



**TYPICAL CHARACTERISTICS
ON
APD-2-0D82D2-SFF-30W**

PMI MODEL NO. APD-2-0D82D2-SFF-30W IS A 2-WAY POWER DIVIDER THAT OPERATES OVER THE FREQUENCY RANGE OF 0.8 TO 2.2 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 0.5 dB (ABOVE 3.01 dB SPLIT) AND A MINIMUM ISOLATION OF 22 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.



September 2, 2022

Tested By: E. Kretz



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Product Feature

DESCRIPTION:

PMI MODEL NO. APD-2-0D82D2-SFF-30W IS A 2-WAY POWER DIVIDER THAT OPERATES OVER THE FREQUENCY RANGE OF 0.8 TO 2.2 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 0.5 dB (ABOVE 3.01 dB SPLIT) AND A MINIMUM ISOLATION OF 22 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS:

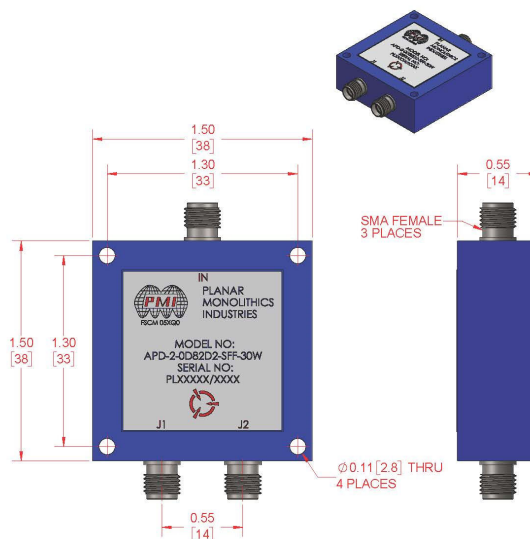
- FREQUENCY RANGE:..... 0.8 TO 2.2 GHz
- INSERTION LOSS:..... 0.5 dB MAX (ABOVE 3.01 dB SPLIT)
- VSWR INPUT:..... 1.20:1 MAX
- VSWR OUTPUT:..... 1.15:1 MAX
- ISOLATION:..... 22 dB MIN
- AMPLITUDE BALANCE:..... ± 0.1 dB MAX
- PHASE BALANCE:..... $\pm 2^\circ$ MAX
- POWER HANDLING:..... FORWARD: 30 WATTS 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)
- OPERATING HUMIDITY:..... UP TO 95% NON-CONDENSING
- 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

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

DATE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE		



APPROVALS		DATE	FILE	PRODUCT FEATURE
J. ESCANO				APD-2-0D82D2-SFF-30W
DESIGNED		REV	TRC	REV
B		05/01/00	27044900	A1
SCALE: 2:1		SHEET 1 OF 1		



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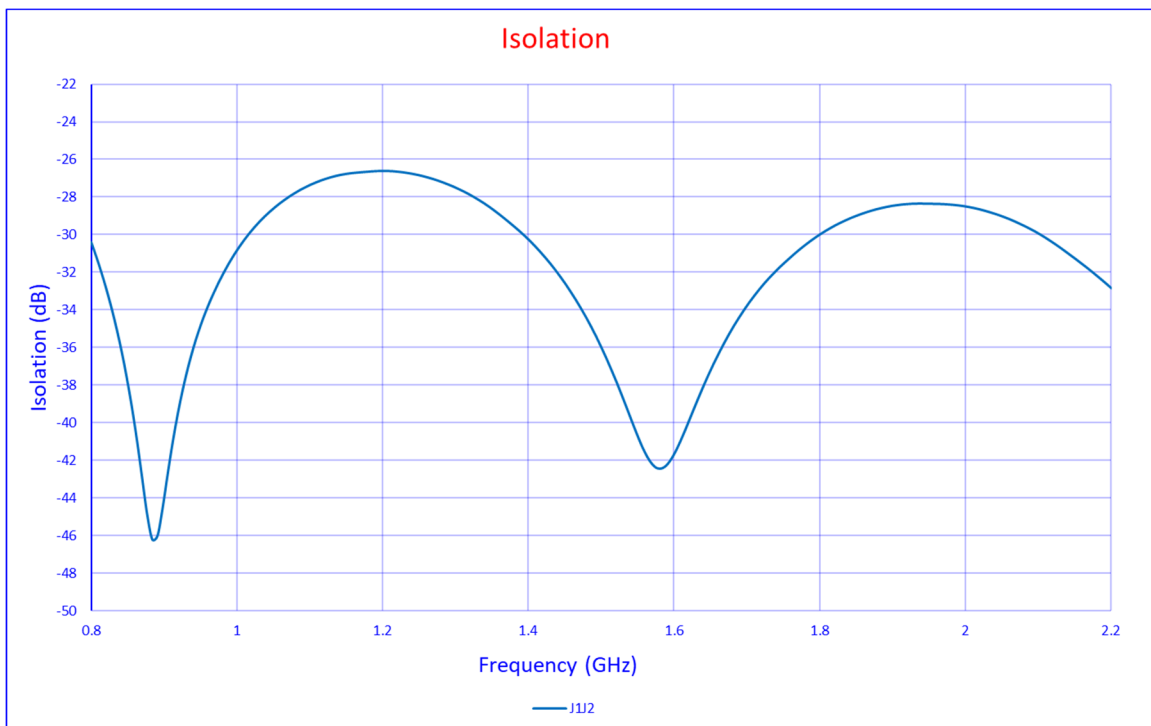
Test Data 25°C

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS
1	Frequency Range	0.8 to 2.2 GHz	0.8 to 2.2 GHz
2	Insertion Loss	0.5 dB MAX (Above 3.01 dB Split)	0.4 dB (See Plot)
3	Isolation	22 dB MIN.	26.7 dB (See Plot)
4	VSWR	INPUT 1.20:1 MAX. OUTPUT 1.15:1 MAX.	INPUT 1.11:1 OUTPUT 1.06:1 (See Plot)
5	Amplitude Balance	±0.1 dB MAX	0.04 dB MAX. 0 dB MIN. (See Plot)
6	Phase Balance	±2° MAX	0.29° MAX. 0° MIN. (See Plot)



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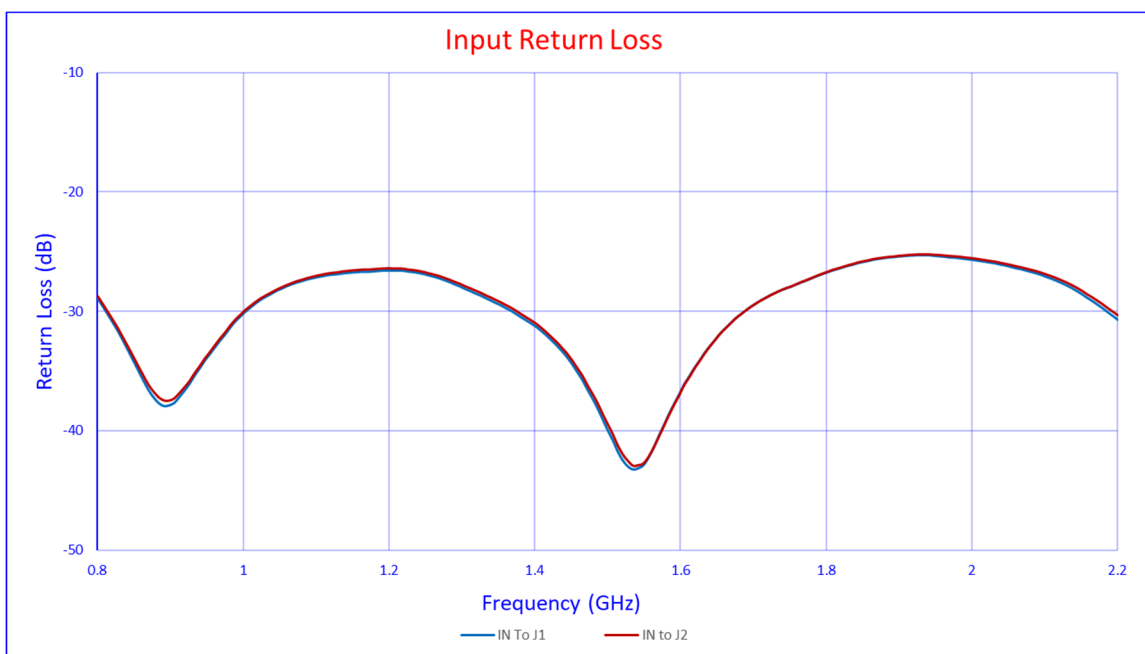
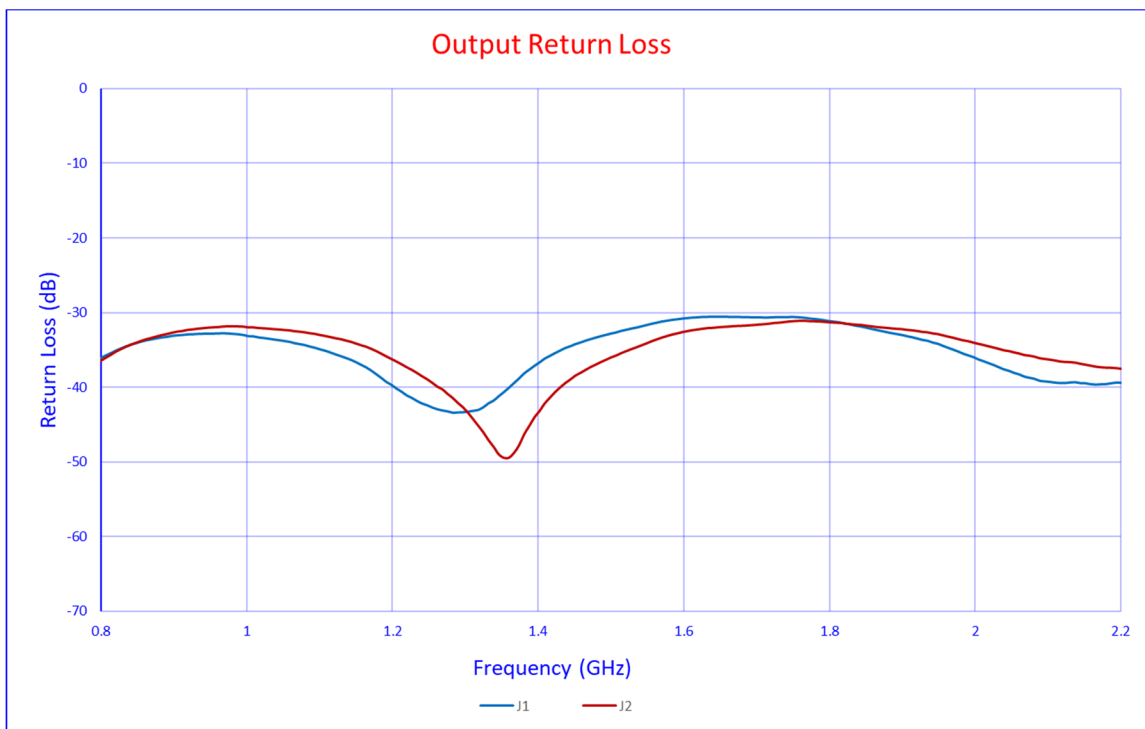
25°C





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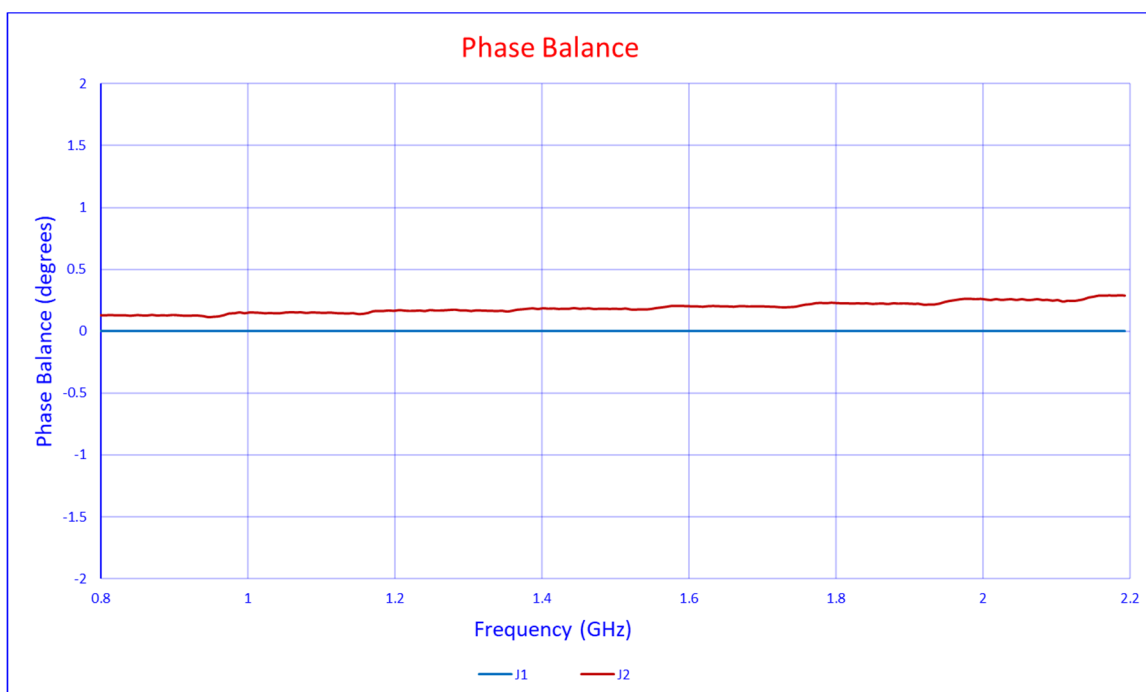
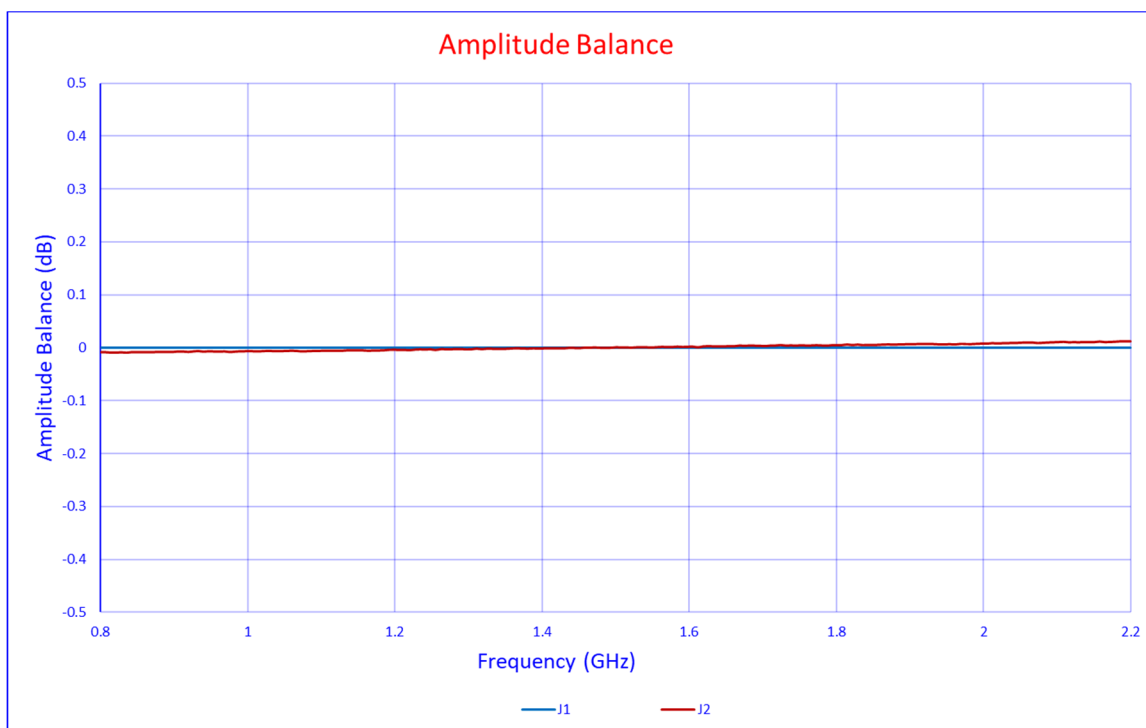
25°C





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25°C





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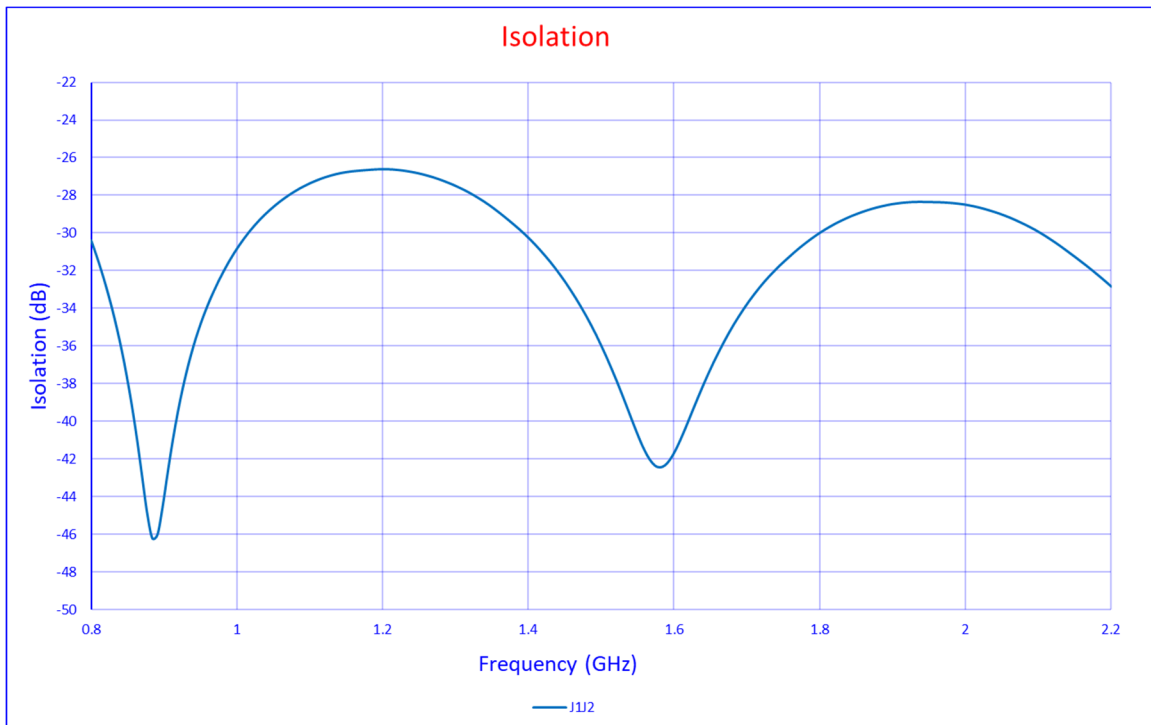
Test Data 85°C

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS
1	Frequency Range	0.8 to 2.2 GHz	0.8 to 2.2 GHz
2	Insertion Loss	0.5 dB MAX (Above 3.01 dB Split)	0.4 dB (See Plot)
3	Isolation	22 dB MIN.	26.6 dB (See Plot)
4	VSWR	INPUT 1.20:1 MAX. OUTPUT 1.15:1 MAX.	INPUT 1.12:1 OUTPUT 1.06:1 (See Plot)
5	Amplitude Balance	±0.1 dB MAX	0.01 dB MAX. -0.01 dB MIN. (See Plot)
6	Phase Balance	±2° MAX	0.52° MAX. 0° MIN. (See Plot)



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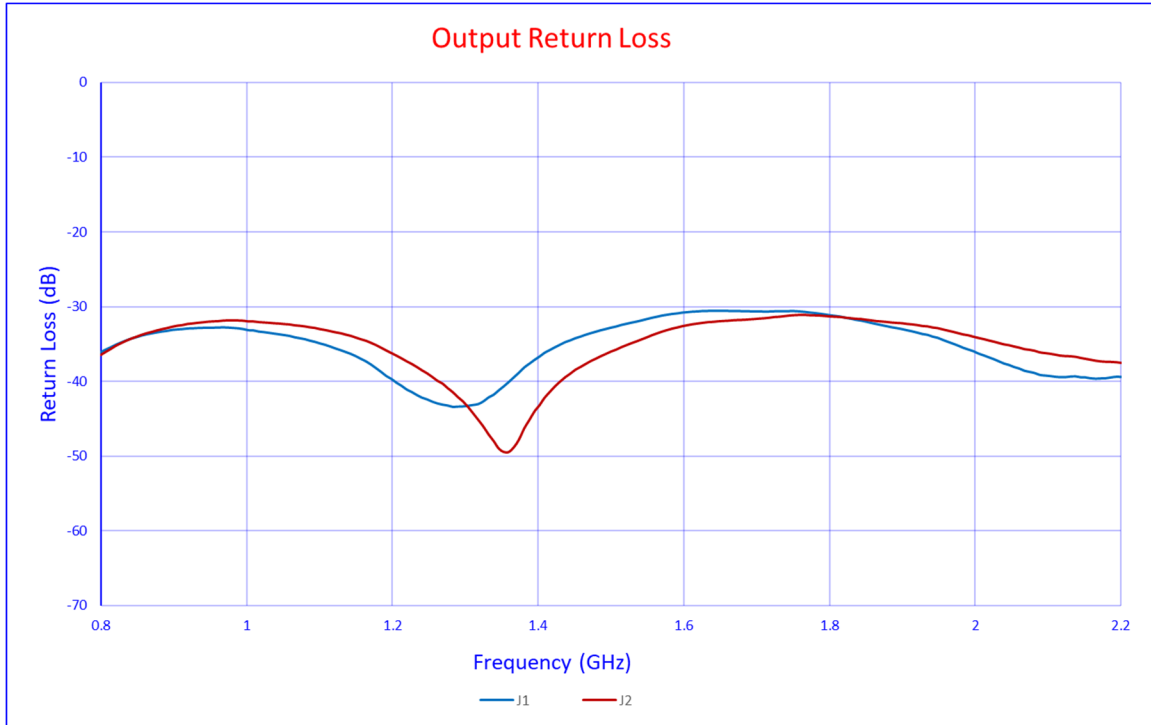
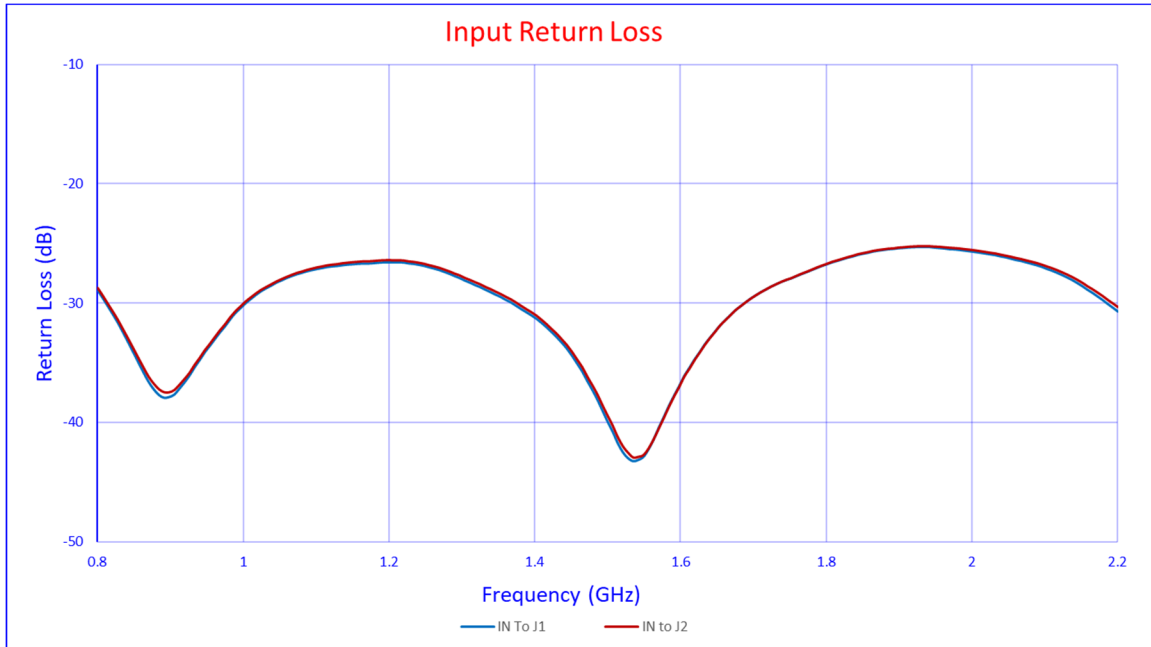
85°C





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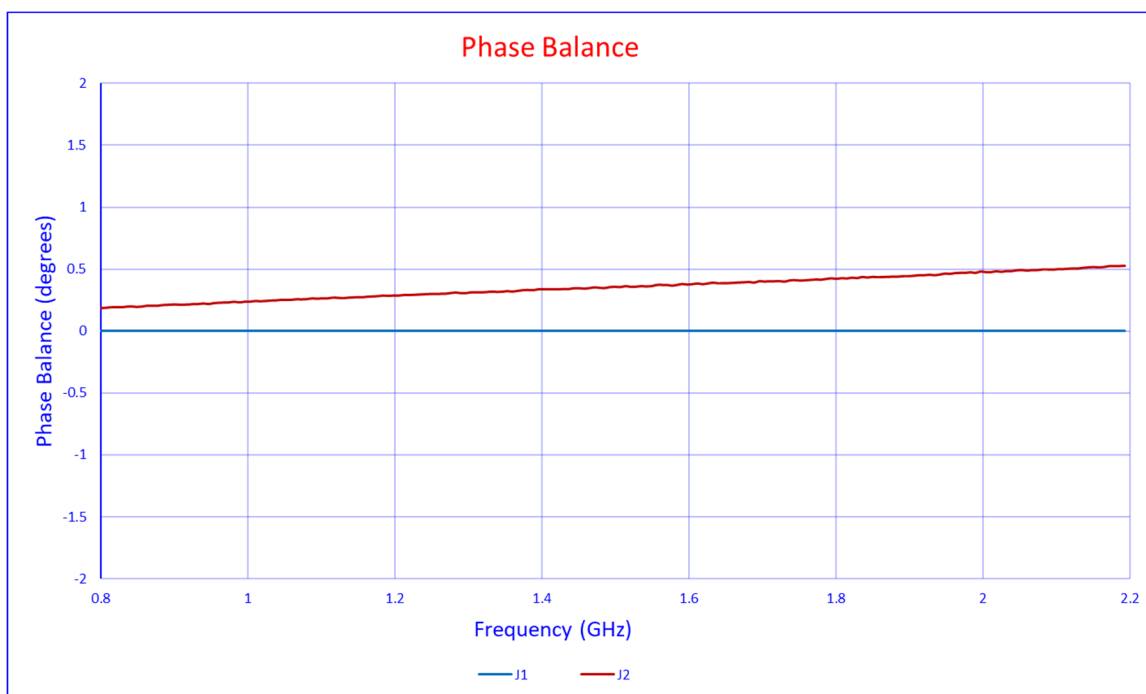
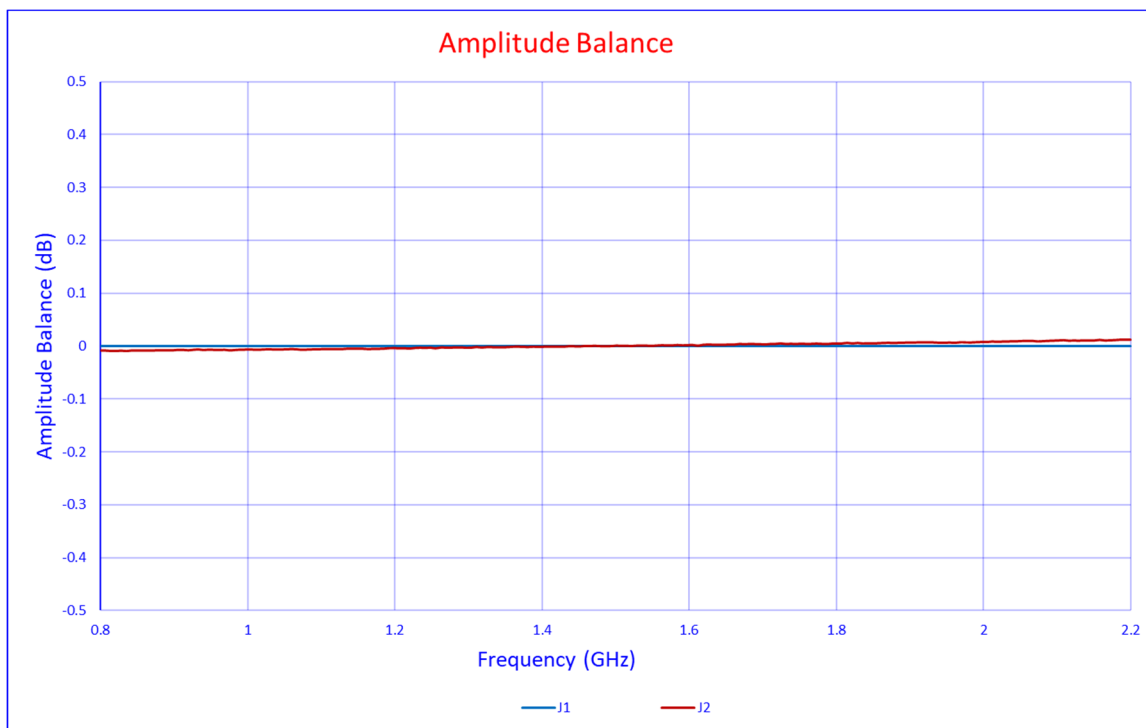
85°C





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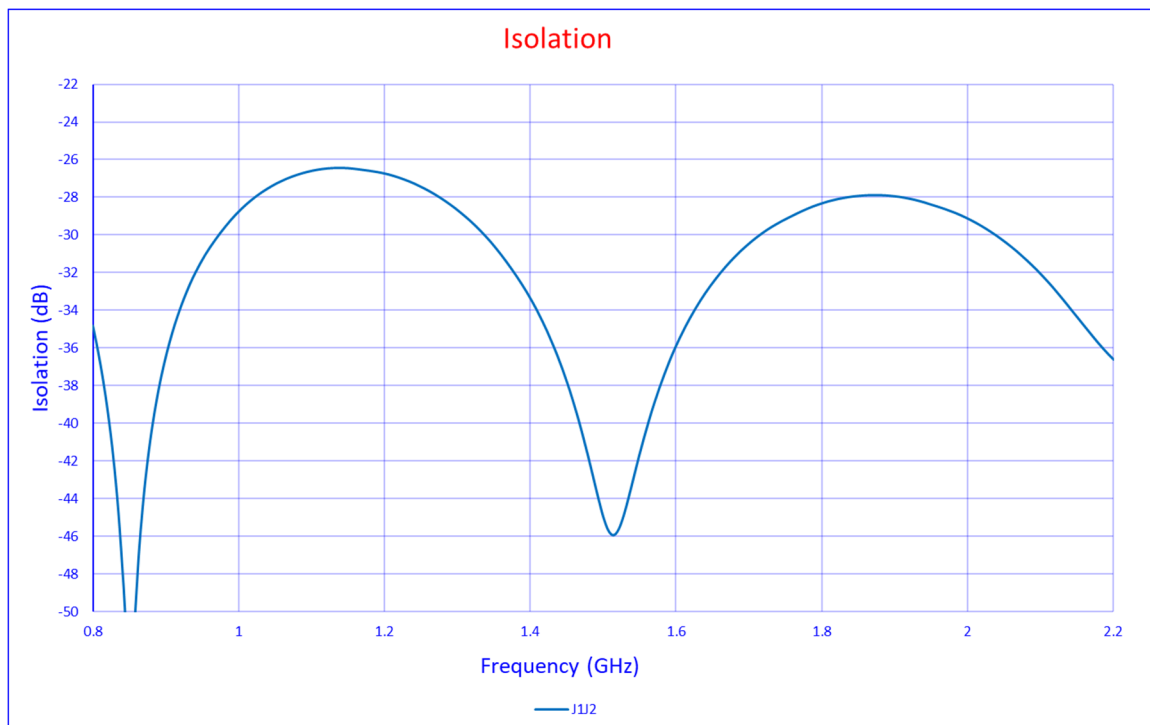
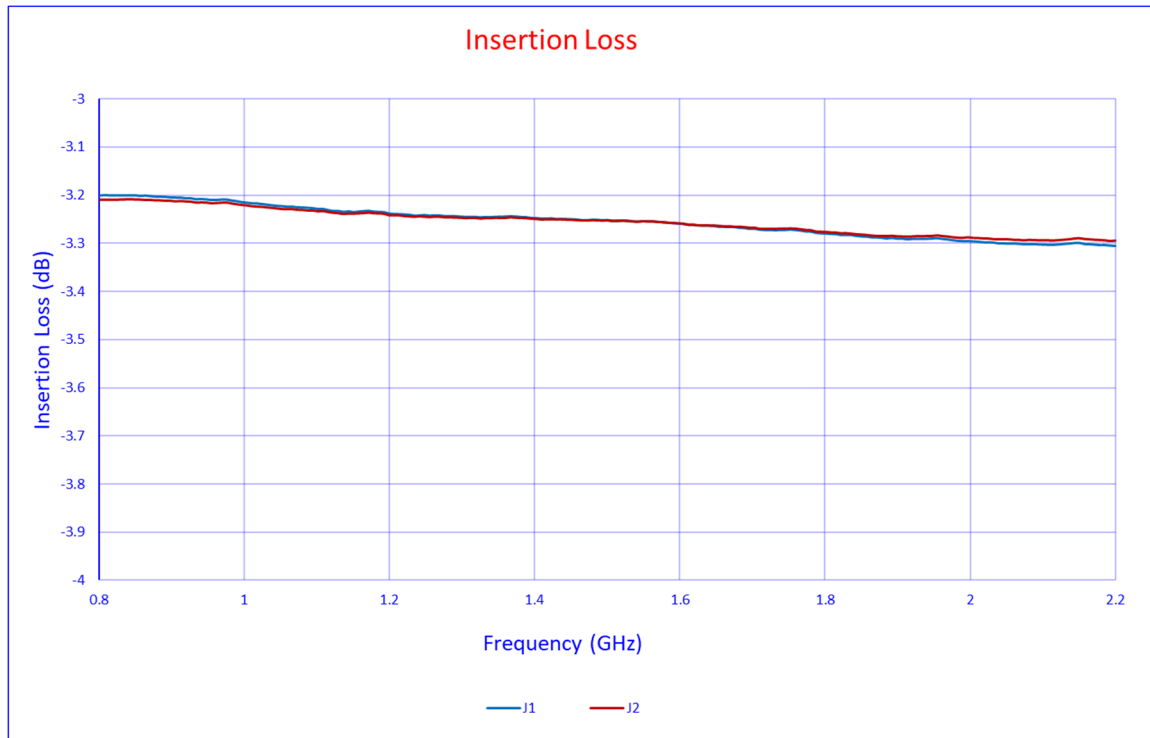
Test Data -55°C

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS
1	Frequency Range	0.8 to 2.2 GHz	0.8 to 2.2 GHz
2	Insertion Loss	0.5 dB MAX (Above 3.01 dB Split)	0.3 dB (See Plot)
3	Isolation	22 dB MIN.	26.4 dB (See Plot)
4	VSWR	INPUT 1.20:1 MAX. OUTPUT 1.15:1 MAX.	INPUT 1.11:1 OUTPUT 1.06:1 (See Plot)
5	Amplitude Balance	±0.1 dB MAX	0.01 dB MAX. -0.01 dB MIN. (See Plot)
6	Phase Balance	±2° MAX	0.21° MAX. 0° MIN. (See Plot)



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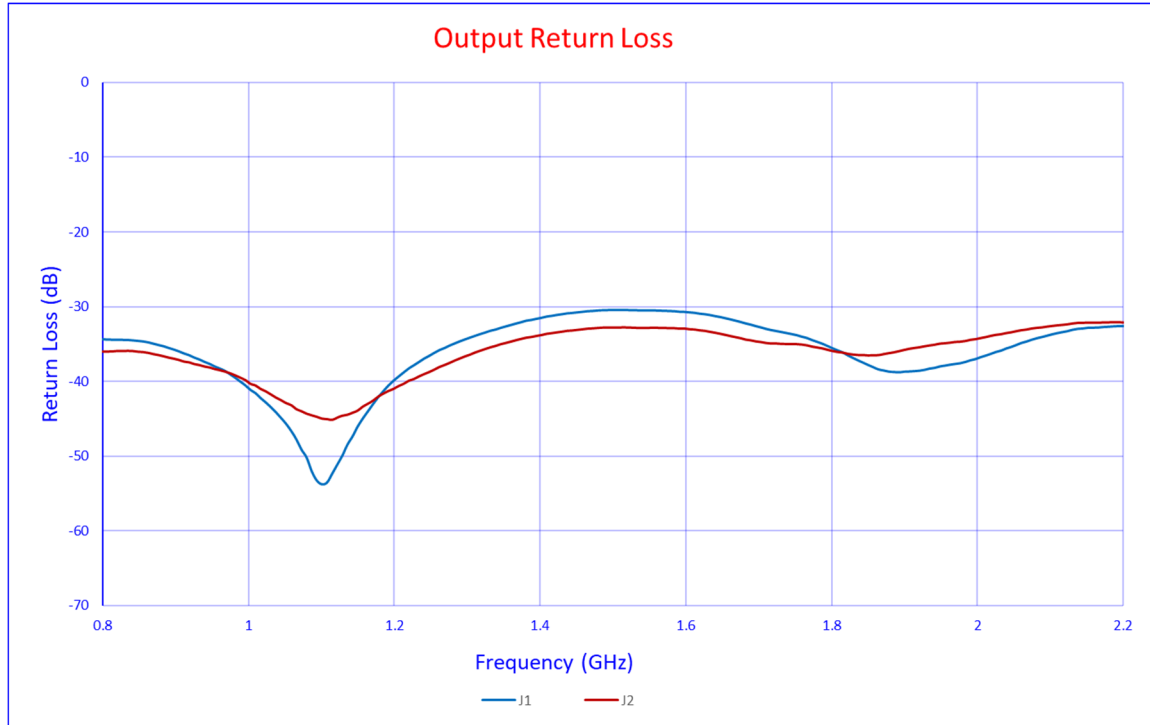
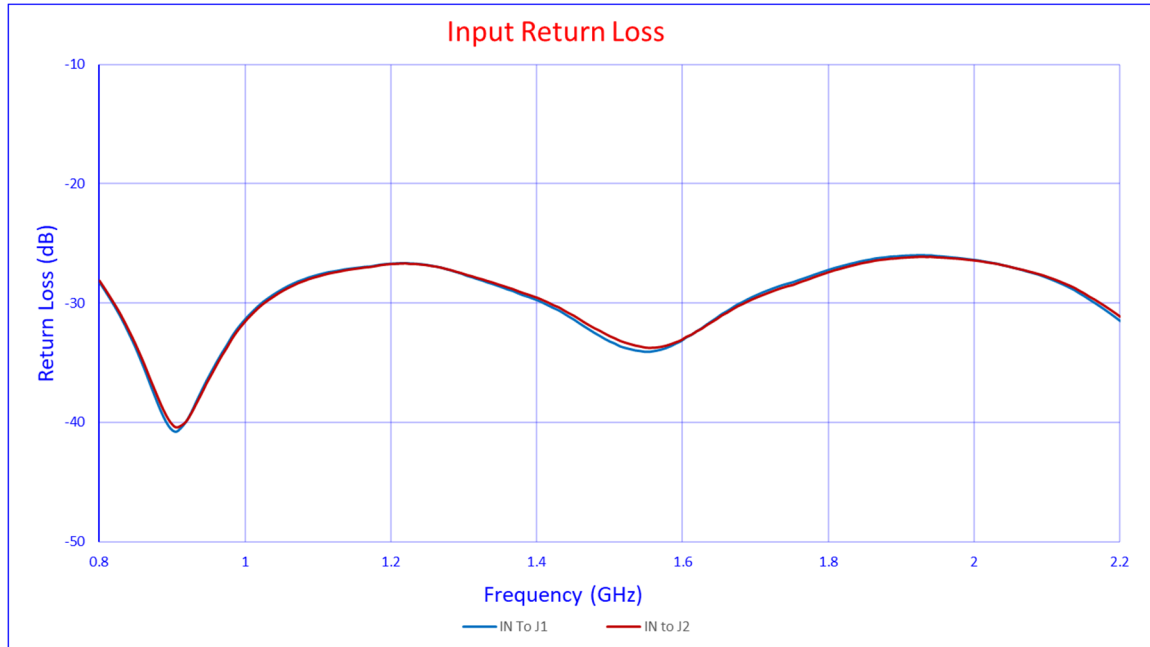
-55°C





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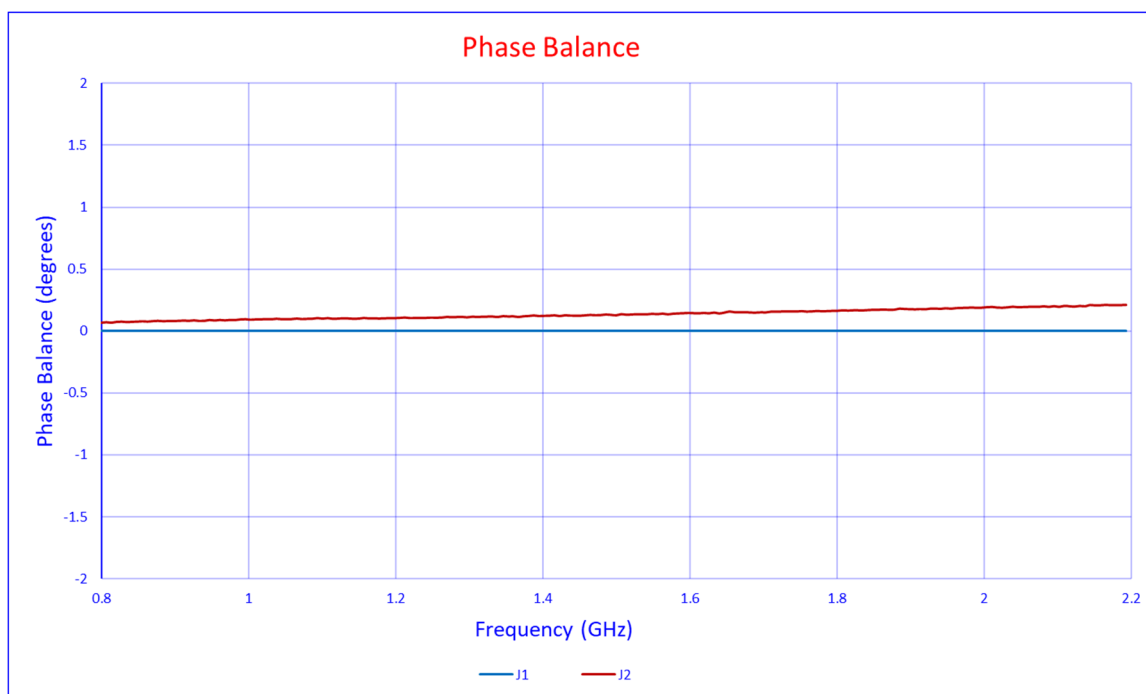
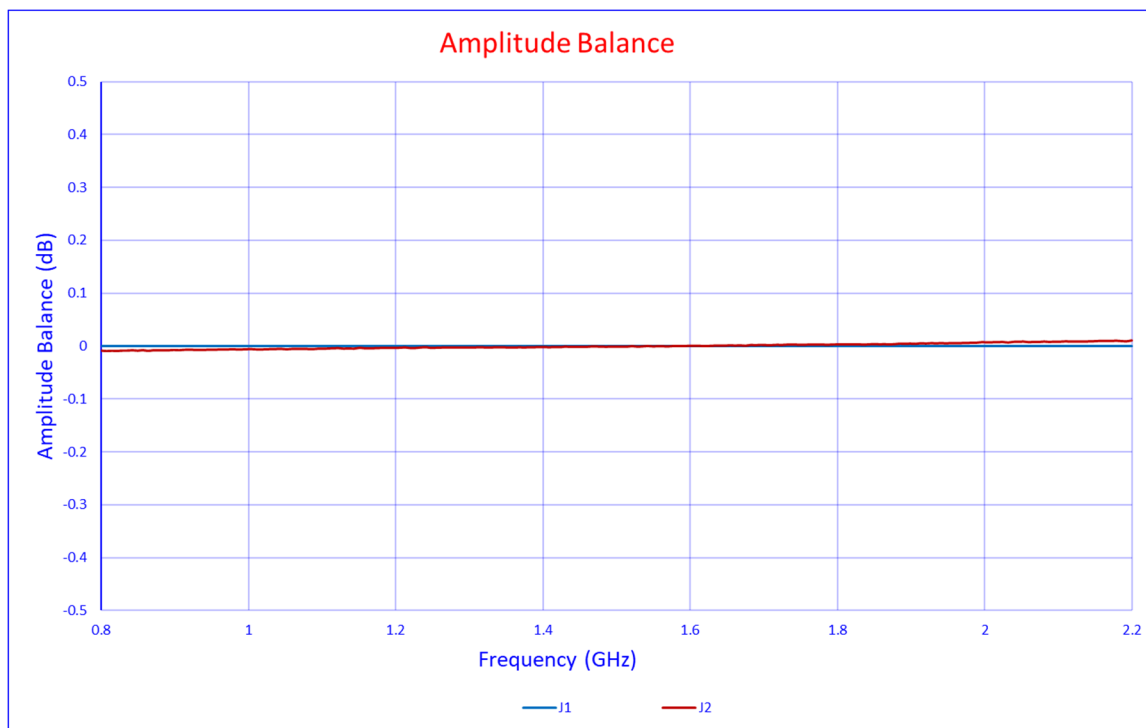
-55°C





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-55°C





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High Power Plot

