



TYPICAL CHARACTERISTICS
ON
APD-2-0D5G18G-30W-SFF-X4

PMI MODEL NUMBER APD-2-0D5G18G-30W-SFF-X4 IS A SET OF 4 MATCHED POWER DIVIDERS DESIGNED TO OPERATE OVER THE 0.5 GHz TO 18 GHz FREQUENCY RANGE.



REPORTED BY: V. PRATAP
TESTED BY: OLIVER K.
DATE: 3/18/2026



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DESCRIPTION:

PMI MODEL NUMBER APD-2-0D5G18G-30W-SFF-X4 IS A SET OF 4 MATCHED POWER DIVIDERS DESIGNED TO OPERATE OVER THE 0.5 GHz TO 18 GHz FREQUENCY RANGE.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.5 GHz TO 18 GHz
- INSERTION LOSS:..... 1.5 dB MAXIMUM (ABOVE 3.01 dB SPLIT)
- VSWR:..... 1.4:1 MAXIMUM ALL PORTS
- ISOLATION:..... 18 dB MINIMUM
- AMPLITUDE BALANCE:..... ±0.3 dB MAXIMUM
- PHASE BALANCE:..... ±3° MAXIMUM
- AMPLITUDE TRACKING¹:..... ±0.3 dB MAXIMUM
- PHASE TRACKING¹:..... ±5° MAXIMUM
- POWER HANDLING:..... FORWARD: 30 W MAXIMUM
REVERSED: 1 W MAXIMUM
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

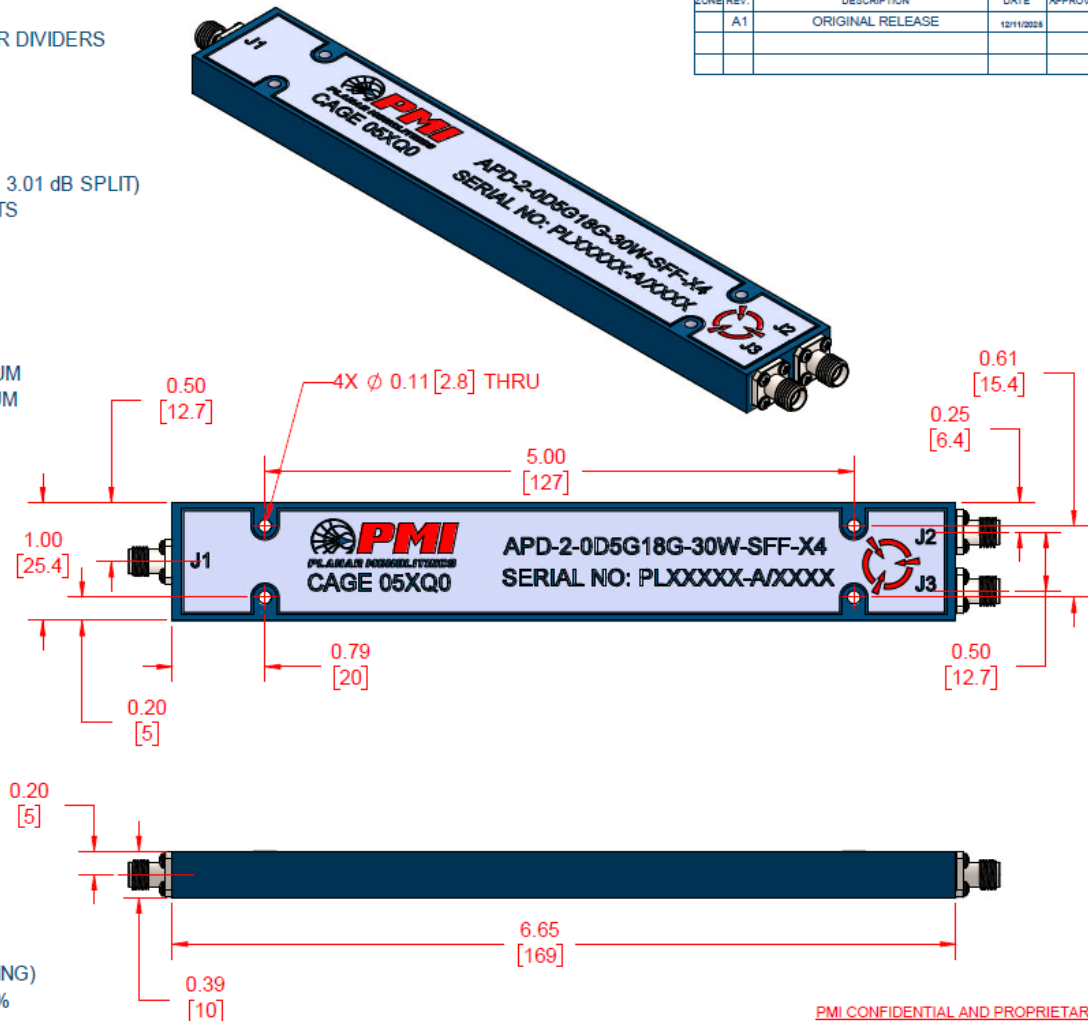
¹PHASE AND AMPLITUDE TRACKING: SAME BATCH, ONLY TEST PORT 1, THEN COMPARE WITH THE PORT 1 OF THE REFERENCE POWER DIVIDER (BENCHMARK).



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
- HUMIDITY:..... OPERATIONAL UP TO 95%
(NON-CONDENSING)
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204B 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	12/11/2024	



<small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES XX ± 0.010 XXX ± 0.005</small>		PART NO. APPROVALS DATE V. PRATAP 12/11/2024		PMI CONFIDENTIAL AND PROPRIETARY <small>7309-A GROVE ROAD FREDERICK, MD 21704 USA WWW.GUANTICOM.COM</small>	
MATERIAL: FINISH:		DRAWN V. PRATAP		TITLE OUTLINE APD-2-0D5G18G-30W-SFF-X4	
NEXT ASSY USED ON		ISSUED		SIZE FSCM NO. DWG NO. REV. B 05XQ0 27053920 A1	
APPLICATION		SCALE 1:1		SHEET 1 OF 1	



**TYPICAL CHARACTERISTICS
ON
APD-2-0D5G18G-30W-SFF-X4**

Test Item No.	Parameters	Specified Value	Test Results (25°C)			
			Unit A	Unit B	Unit C	Unit D
1	Frequency Range:	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz
2	Insertion Loss:	1.5 dB MAX (Above 3.01 dB split)	0.85 dB (See Plot)	0.83 dB (See Plot)	0.82 dB (See Plot)	0.79 dB (See Plot)
3	VSWR:	1.4:1 MAX (ALL PORTS)	1.36:1 (See Plot)	1.33:1 (See Plot)	1.27:1 (See Plot)	1.27:1 (See Plot)
4	Isolation:	18 dB MIN	19.24 dB (See Plot)	19.24 dB (See Plot)	19.48 dB (See Plot)	19.45 dB (See Plot)
5	Amplitude Balance:	±0.3 dB MAX	0.05 dB -0.05 dB (See Plot)	0.08 dB -0.08 dB (See Plot)	0.05 dB -0.05 dB (See Plot)	0.03 dB -0.03 dB (See Plot)
6	Phase Balance:	±3° MAX	0.49° -0.49° (See Plot)	0.65° -0.65° (See Plot)	0.9° -0.9° (See Plot)	0.45° -0.45° (See Plot)
7	Amplitude Tracking ¹ :	±0.3 dB	0.25 dB -0.25 dB (See Plot)			
8	Phase Tracking ¹ :	±5° MAX	1.29° -1.29° (See Plot)			

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Test Item No.	Parameters	Specified Value	Test Results (-55°C)			
			Unit A	Unit B	Unit C	Unit D
1	Frequency Range:	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz
2	Insertion Loss:	1.5 dB MAX (Above 3.01 dB split)	0.71 dB (See Plot)	0.76 dB (See Plot)	0.81 dB (See Plot)	0.78 dB (See Plot)
3	VSWR:	1.4:1 MAX (ALL PORTS)	1.36:1 (See Plot)	1.35:1 (See Plot)	1.29:1 (See Plot)	1.3:1 (See Plot)
4	Isolation:	18 dB MIN	19.24 dB (See Plot)	19.24 dB (See Plot)	19.54 dB (See Plot)	19.37 dB (See Plot)
5	Amplitude Balance:	±0.3 dB MAX	0.05 dB -0.05 dB (See Plot)	0.08 dB -0.08 dB (See Plot)	0.09 dB -0.09 dB (See Plot)	0.05 dB -0.05 dB (See Plot)
6	Phase Balance:	±3° MAX	0.6° -0.6° (See Plot)	1° -1° (See Plot)	0.68° -0.68° (See Plot)	1.03° -1.03° (See Plot)
7	Amplitude Tracking ¹ :	±0.3 dB	0.1 dB -0.1 dB (See Plot)			
8	Phase Tracking ¹ :	±5° MAX	2.99° -2.99° (See Plot)			

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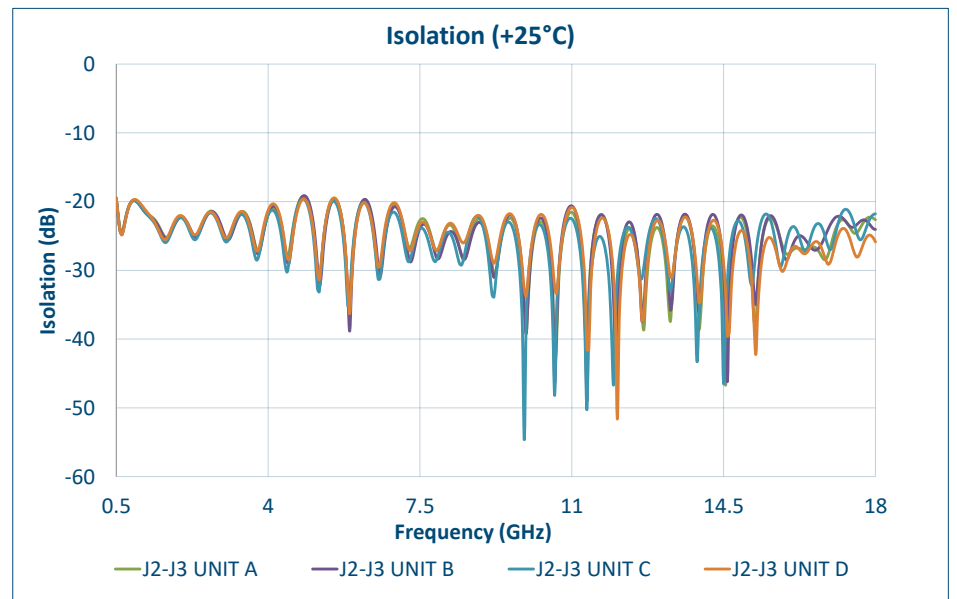
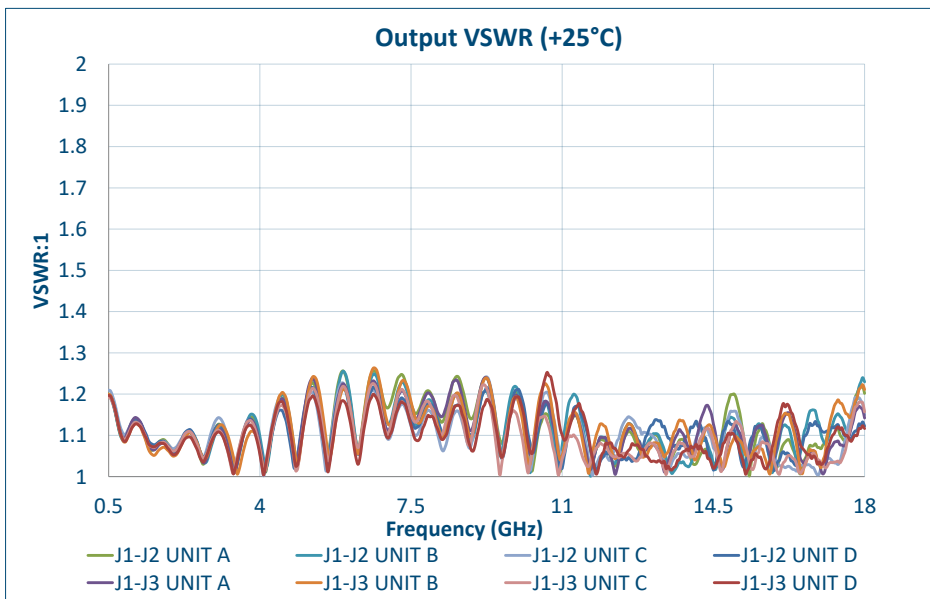
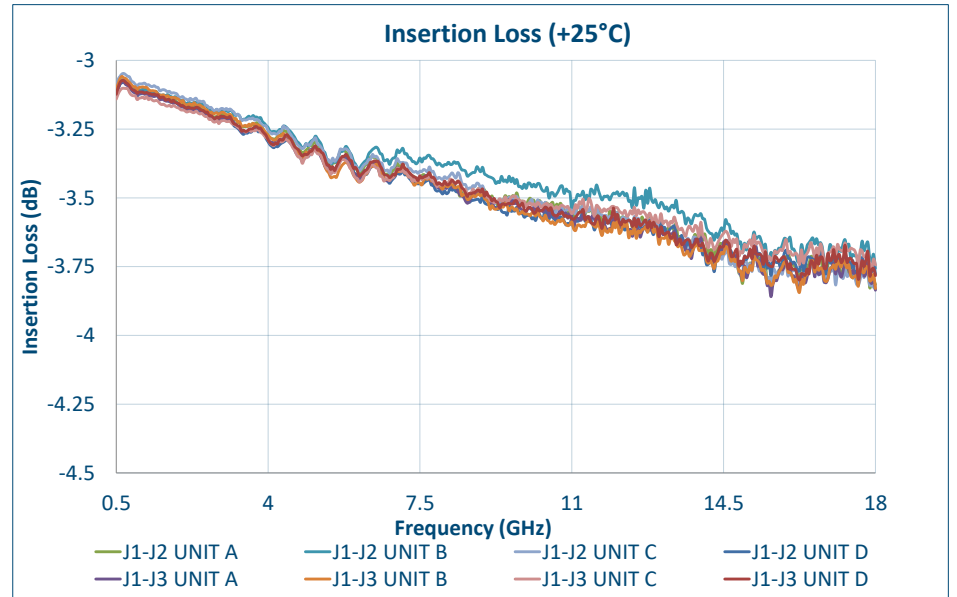
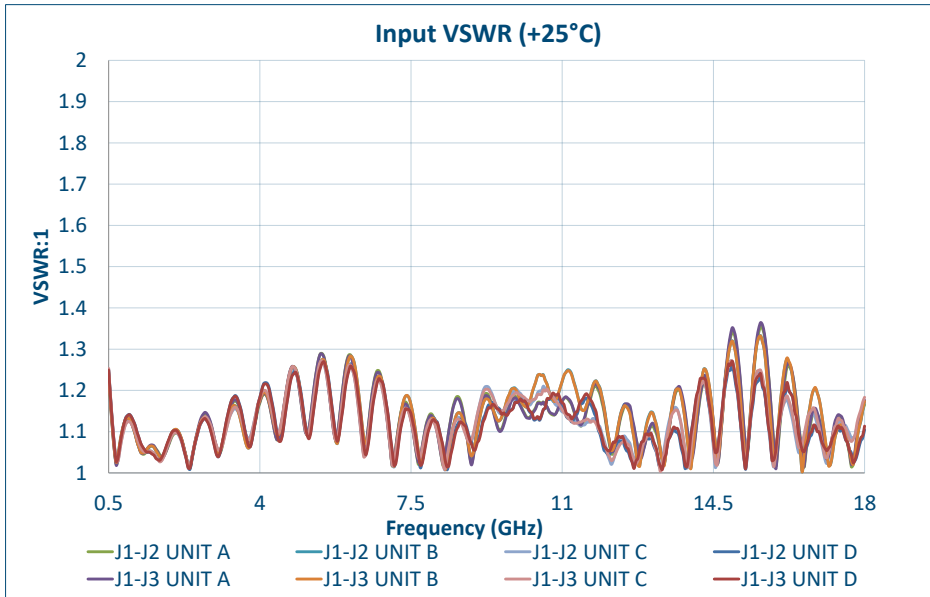


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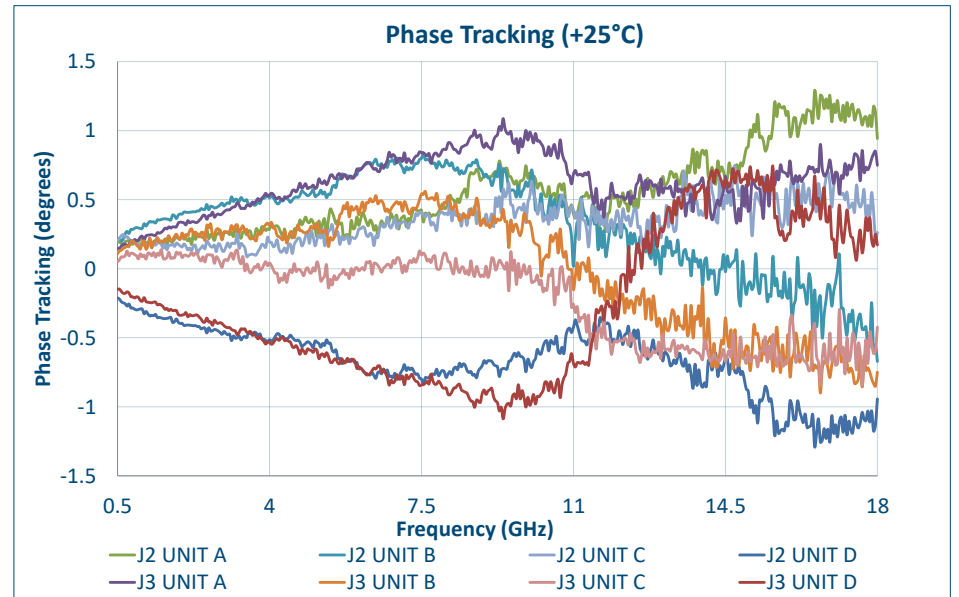
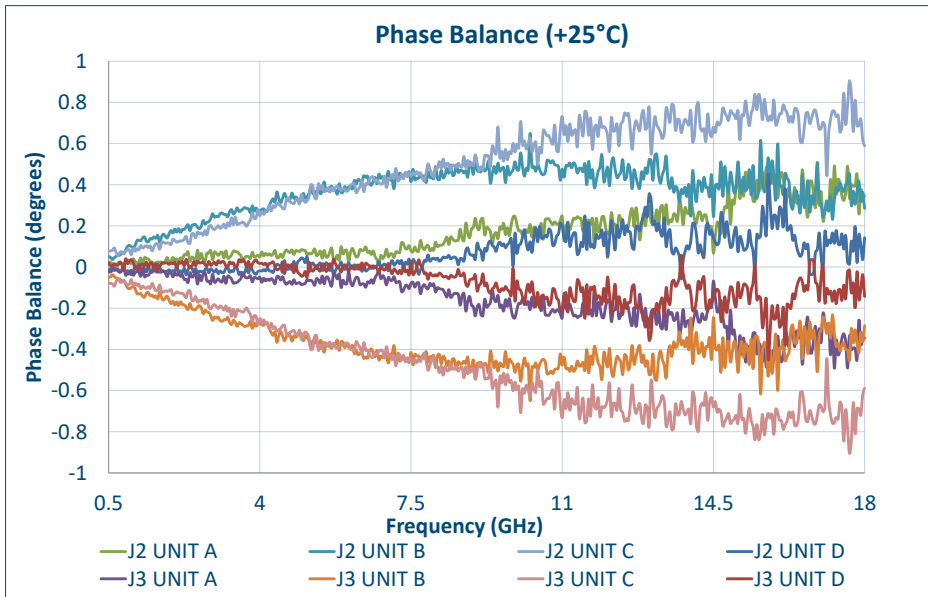
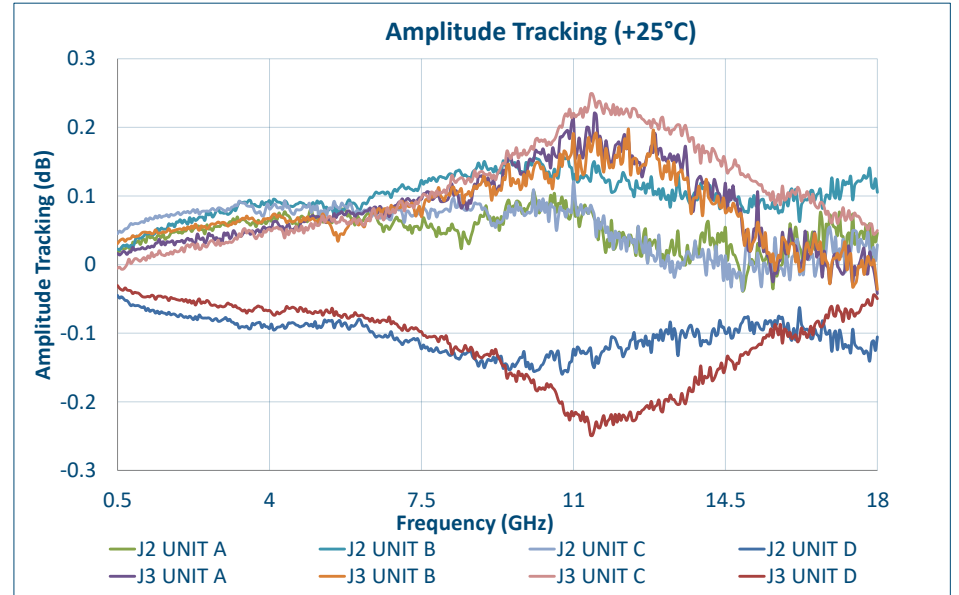
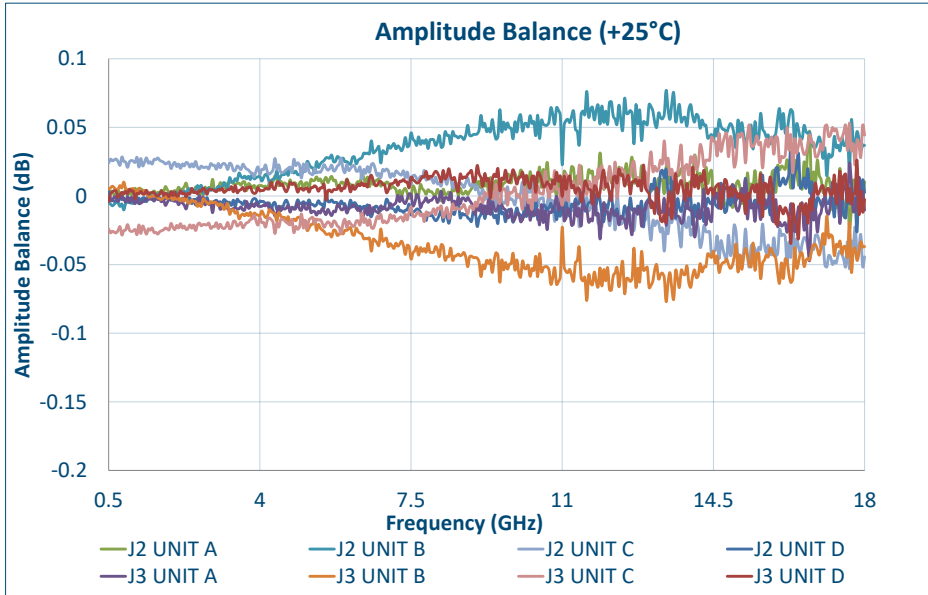
Test Item No.	Parameters	Specified Value	Test Results (+85°C)			
			Unit A	Unit B	Unit C	Unit D
1	Frequency Range:	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz	0.5 GHz - 18 GHz
2	Insertion Loss:	1.5 dB MAX (Above 3.01 dB split)	0.88 dB (See Plot)	0.96 dB (See Plot)	0.95 dB (See Plot)	0.91 dB (See Plot)
3	VSWR:	1.4:1 MAX (ALL PORTS)	1.34:1 (See Plot)	1.33:1 (See Plot)	1.27:1 (See Plot)	1.26:1 (See Plot)
4	Isolation:	18 dB MIN	19.06 dB (See Plot)	19.06 dB (See Plot)	19.06 dB (See Plot)	19.02 dB (See Plot)
5	Amplitude Balance:	±0.3 dB MAX	0.05 dB -0.05 dB (See Plot)	0.1 dB -0.1 dB (See Plot)	0.08 dB -0.08 dB (See Plot)	0.04 dB -0.04 dB (See Plot)
6	Phase Balance:	±3° MAX	0.17° -0.17° (See Plot)	2.21° -2.21° (See Plot)	0.25° -0.25° (See Plot)	0.3° -0.3° (See Plot)
7	Amplitude Tracking ¹ :	±0.3 dB	0.09 dB -0.09 dB (See Plot)			
8	Phase Tracking ¹ :	±5° MAX	4.31° -4.31° (See Plot)			

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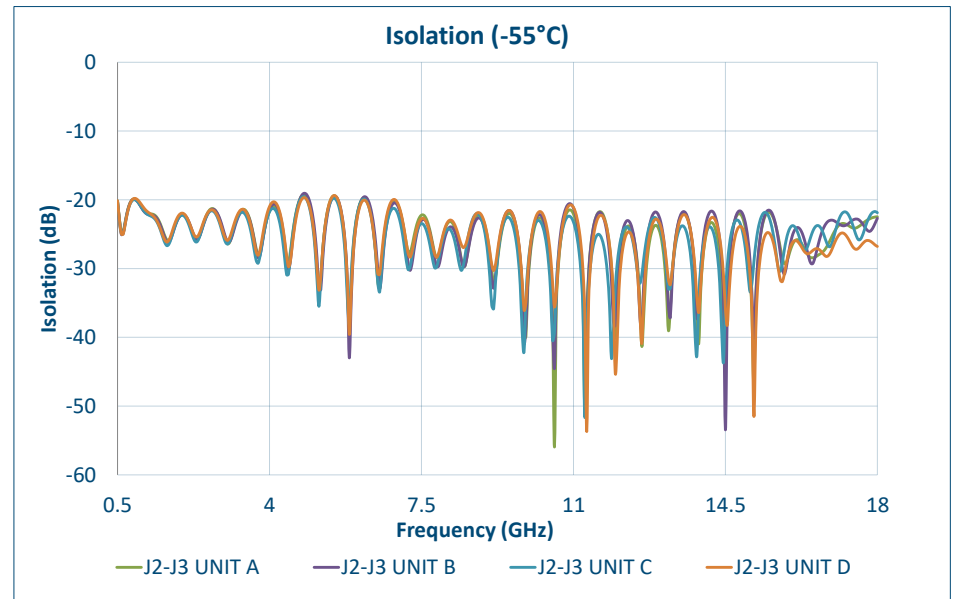
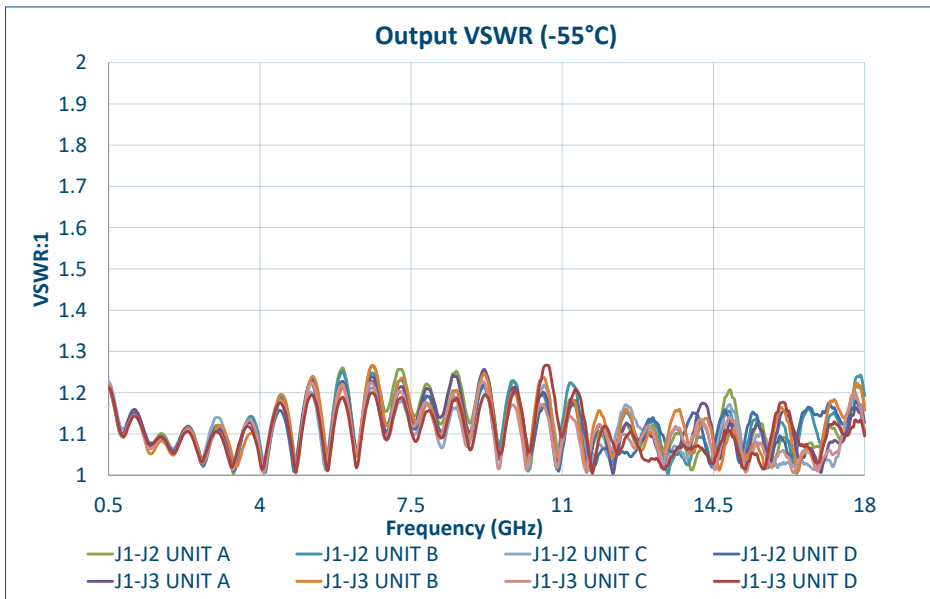
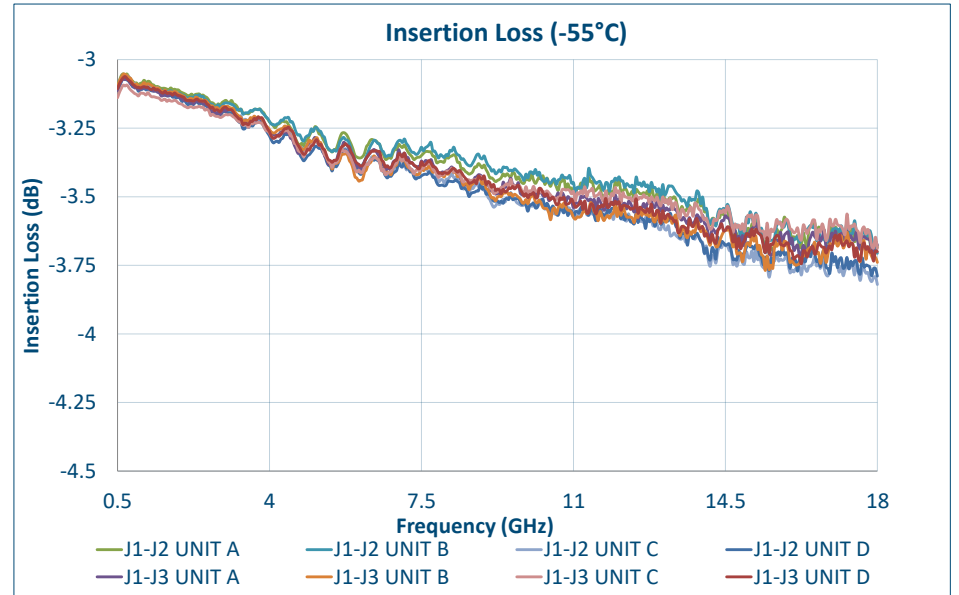
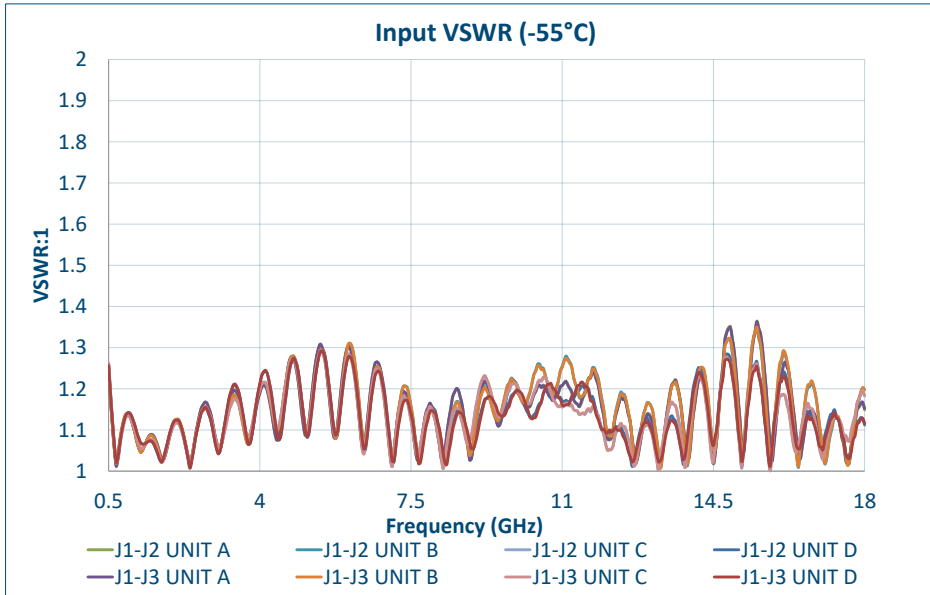
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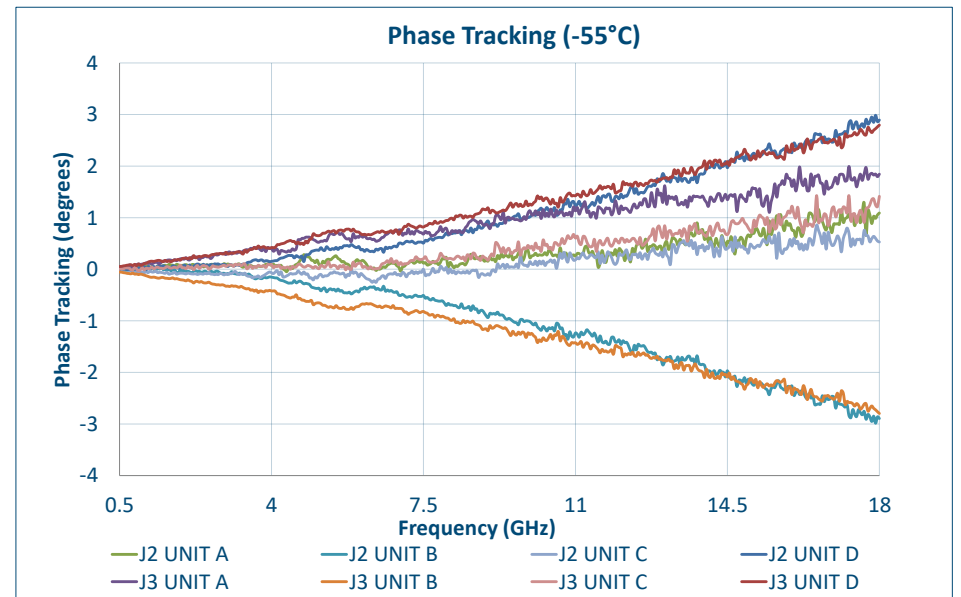
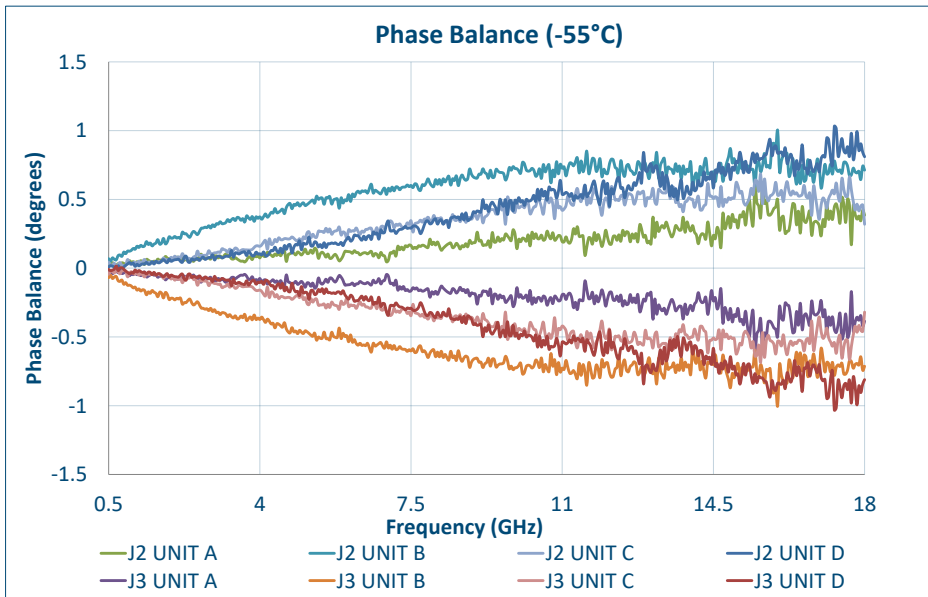
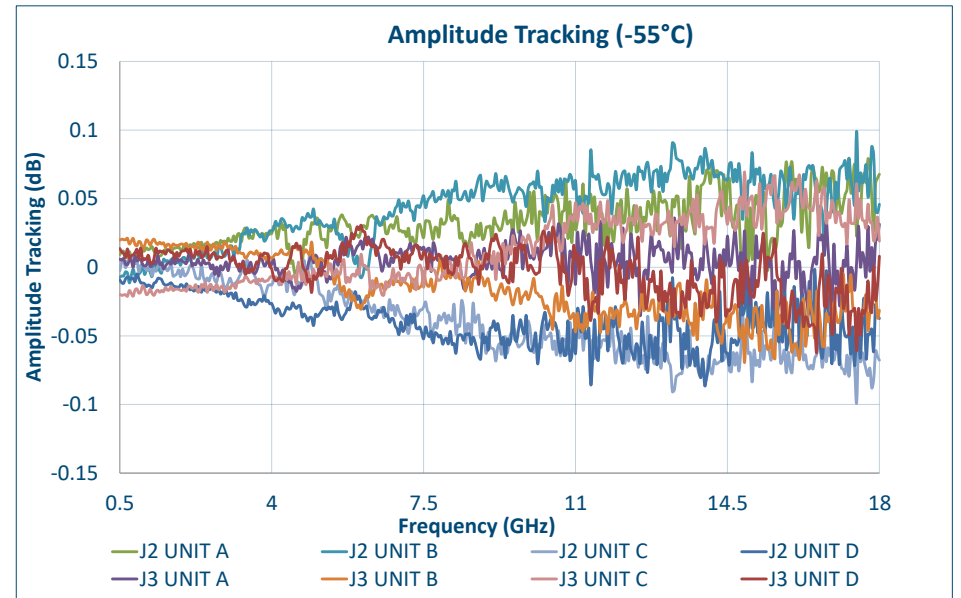
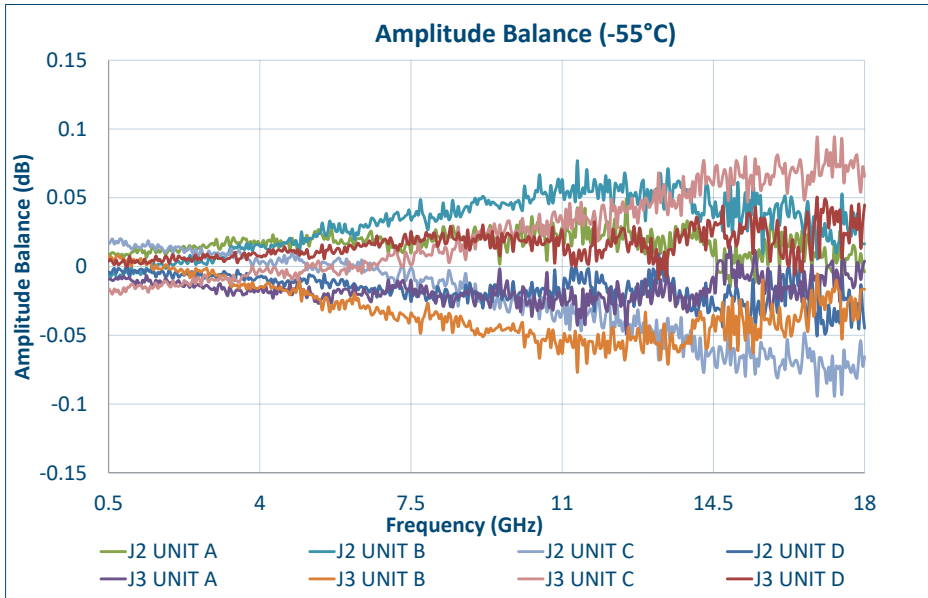
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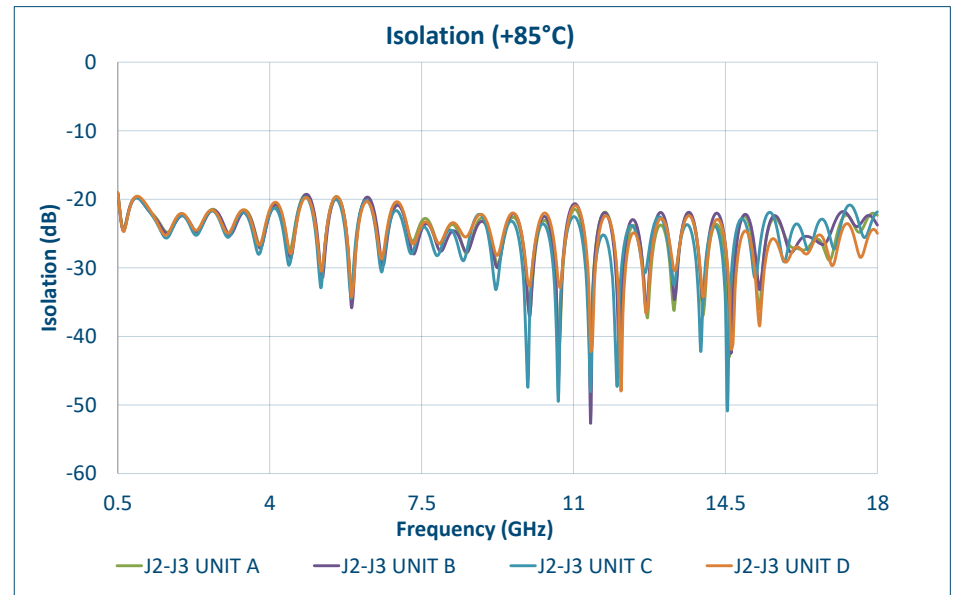
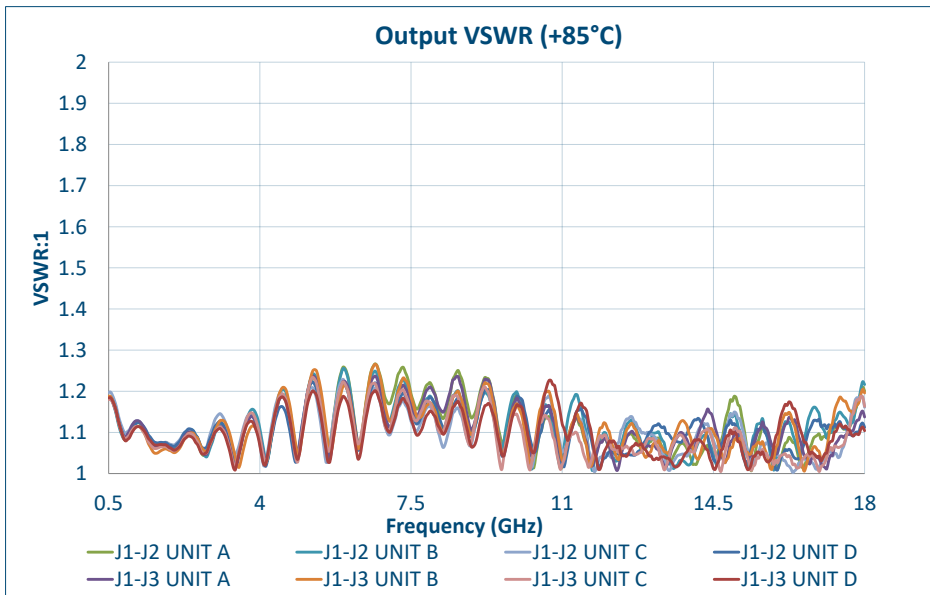
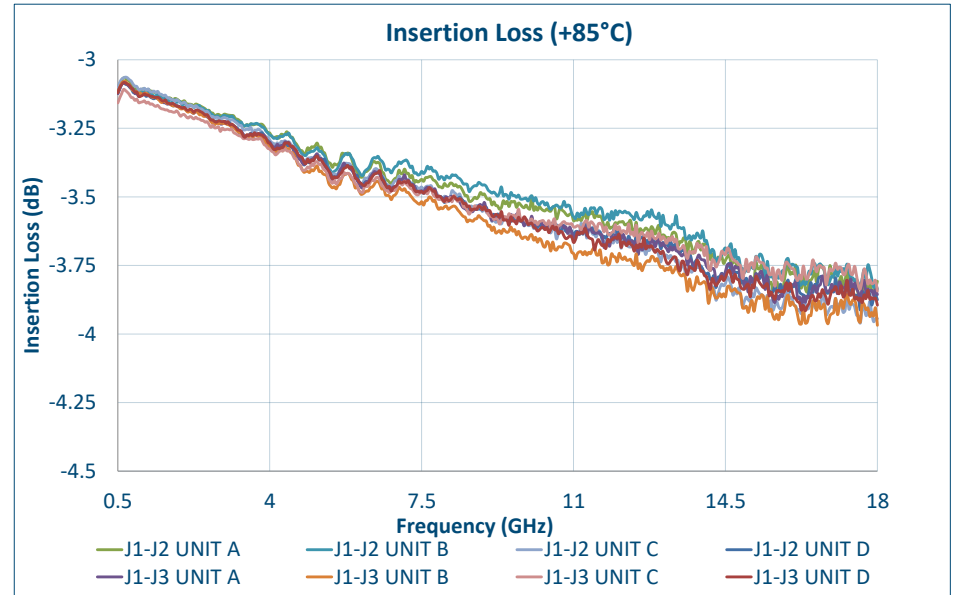
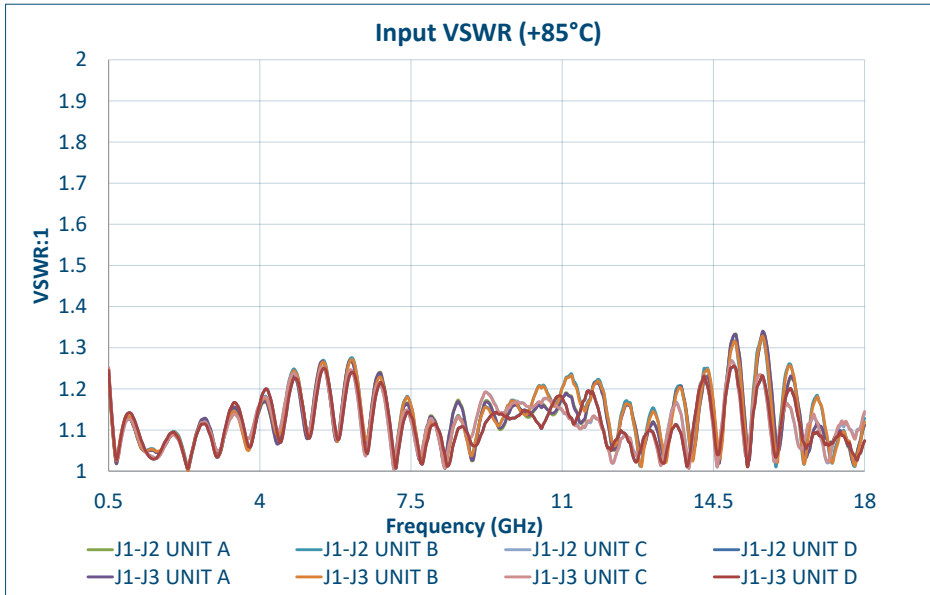
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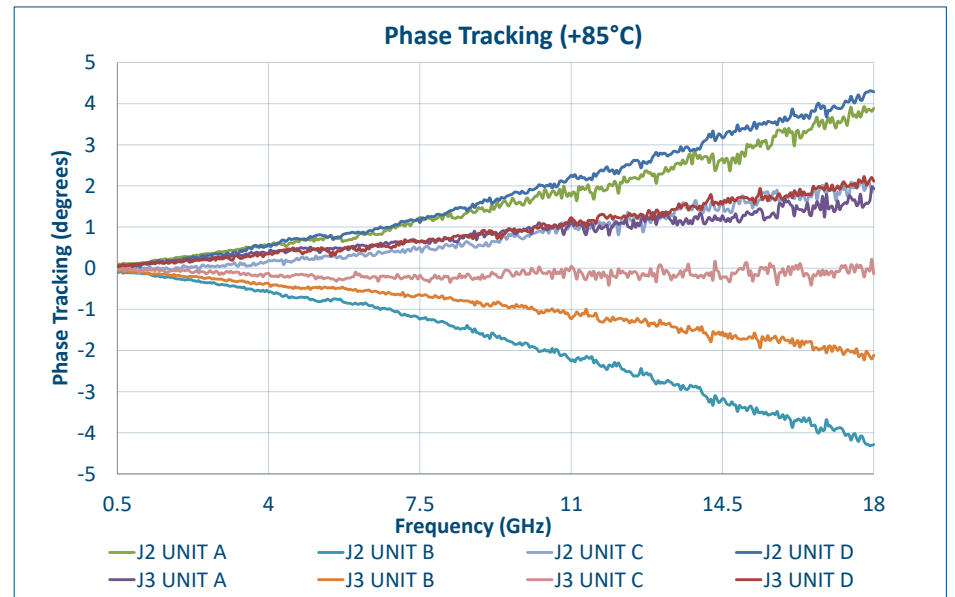
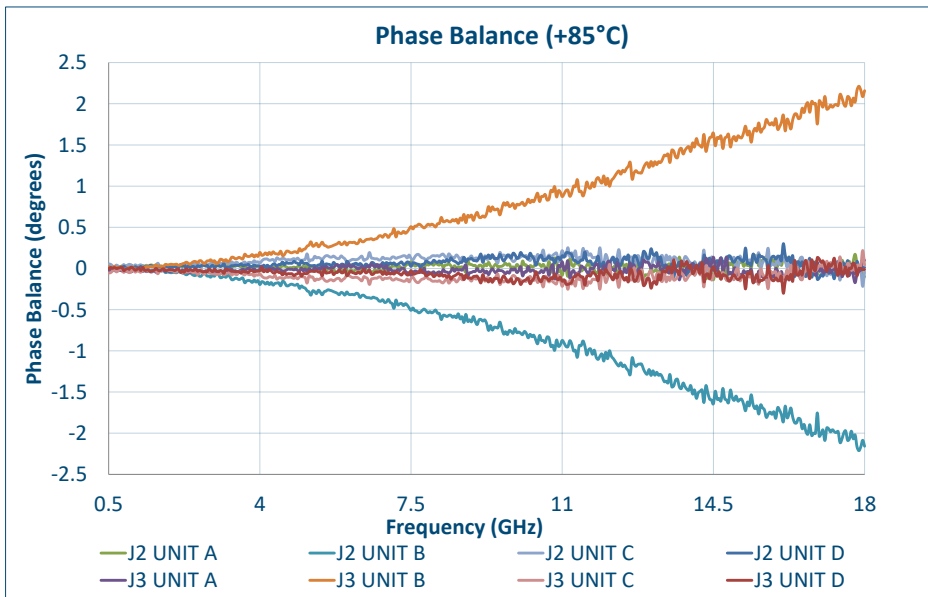
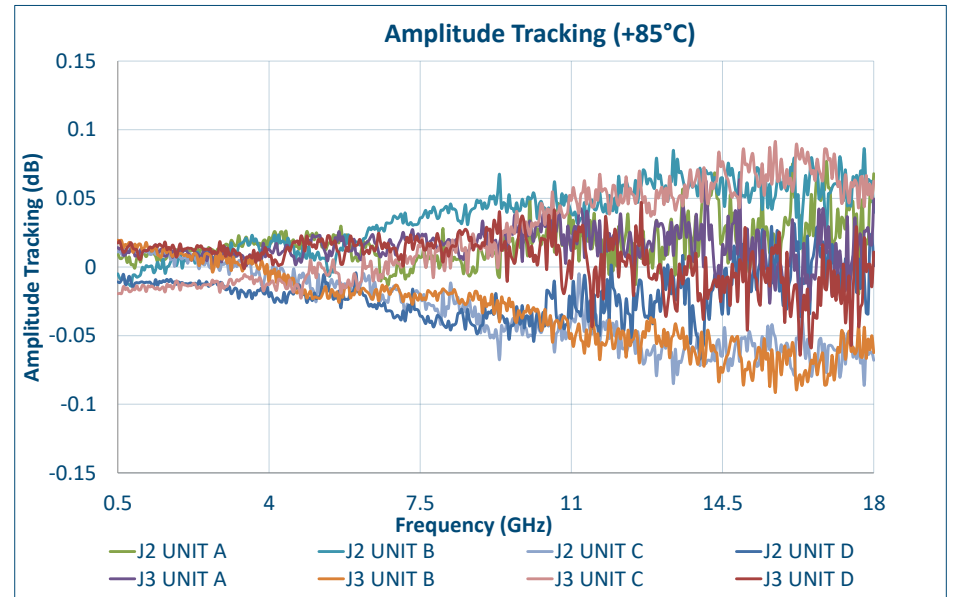
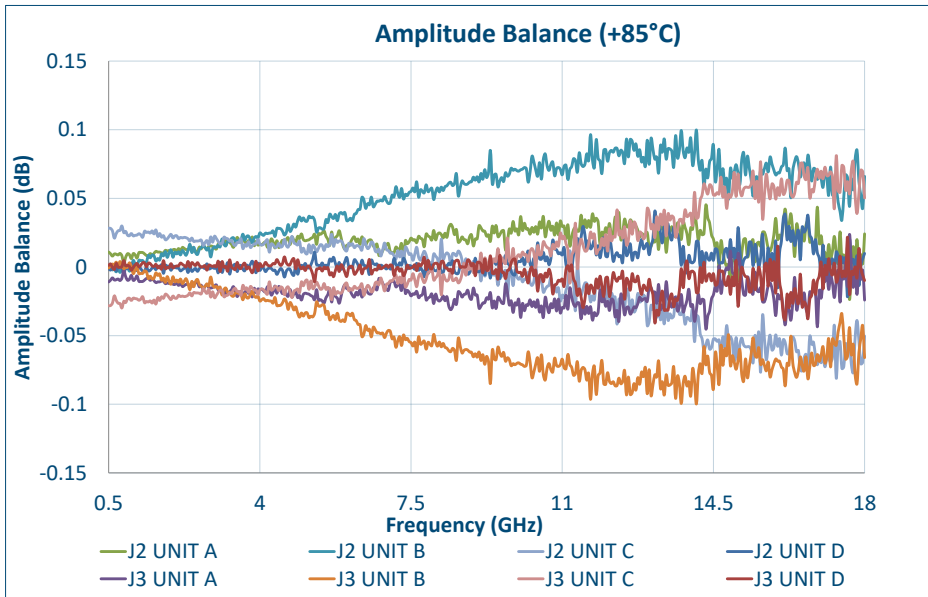


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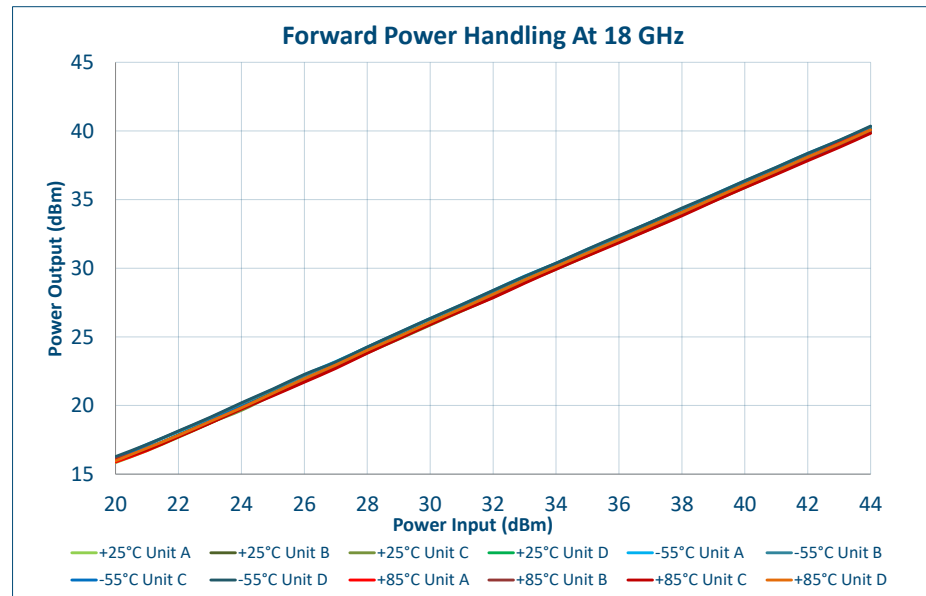
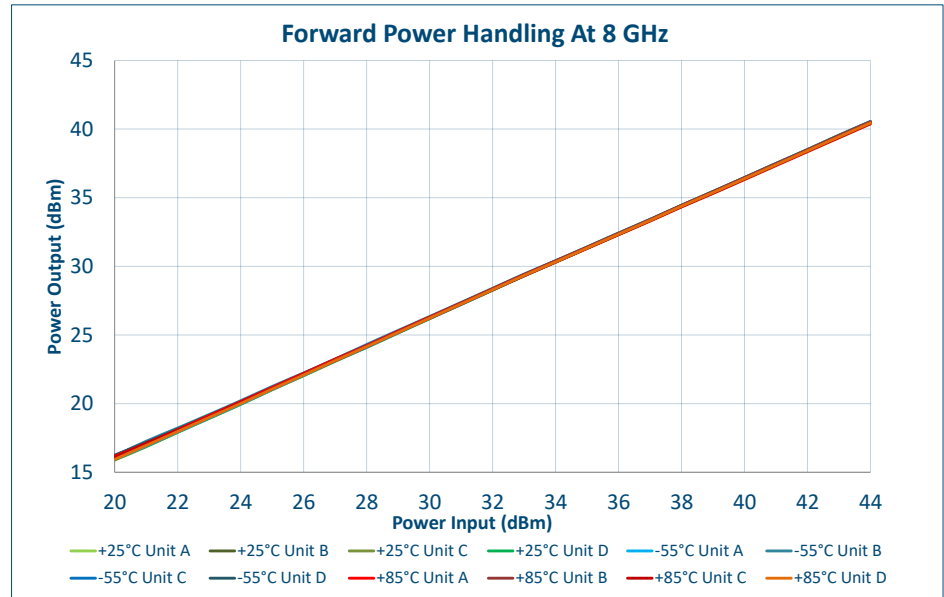
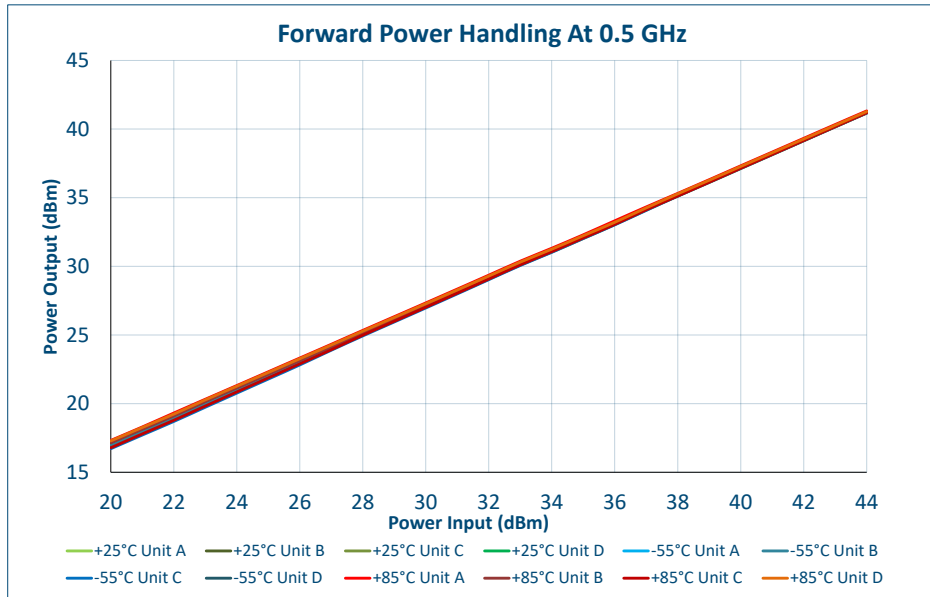


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