TYPICAL CHARACTERISTICS
ON
APD-8-800M2D5G-SFF-30W

PMI MODEL APD-8-800M2D5G-SFF-30W IS AN EIGHT WAY POWER DIVIDER FEATURING HIGH ISOLATION, LOW INSERTION LOSS, AND LOW VSWR. IT IS DESIGNED FOR BROADBAND USE AND HIGH RELIABILITY

AUGUST 5th, 2015

DESIGNED BY: PMI ENGINEERING

TESTED & REPORTED BY:
BOB WAKENIGHT

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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TYPICAL CHARACTERISTICS ON APD-8-800M2D5G-SFF-30W

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	08/18/15	

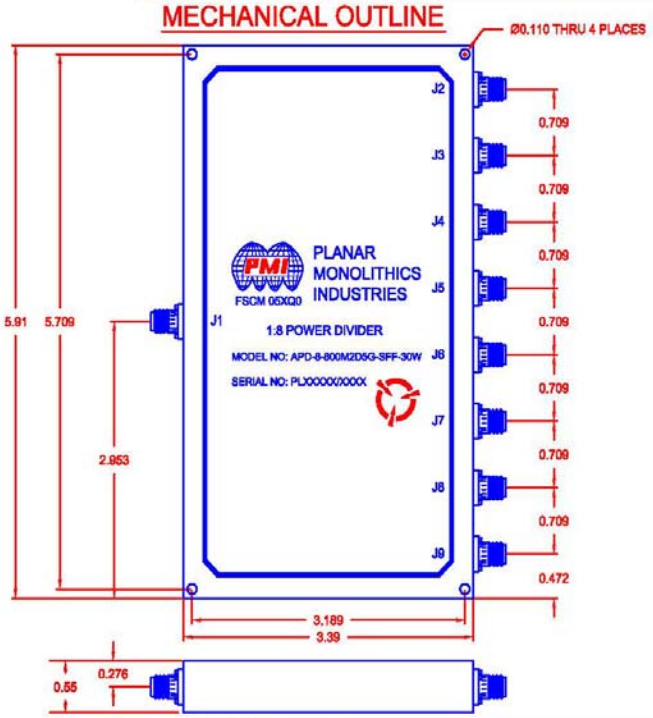
DESCRIPTION

PMI MODEL APD-8-800M2D5G-SFF-30W IS AN EIGHT WAY POWER DIVIDER FEATURING HIGH ISOLATION, LOW INSERTION LOSS, AND LOW VSWR. IT IS DESIGNED FOR BROADBAND USE AND HIGH RELIABILITY.

SPECIFICATIONS

- FREQUENCY RANGE: 0.8 TO 2.5 GHz
- INSERTION LOSS: ≤1.2 dB
- VSWR: ≤1.40:1
- ISOLATION: 20 dB MINIMUM
- AMPLITUDE BALANCE: ≤±0.5 dB
- PHASE BALANCE: ≤±5°
- POWER HANDLING: FORWARD ≤30 W
  REVERSED ≤1 W
- IMPEDANCE: 50 Ω
- CONNECTORS: SMA FEMALE (X9)
- FINISH: PAINTED BLUE

MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 °C TO +85 °C (OPERATING)
  -65 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
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WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN M. Berry	08/18/15
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE APD-8-800M2D5G-SFF-30W

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27025681	A1

SCALE N:S SHEET 1 OF 1

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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	0.8 TO 2.5 GHz	**0.8 TO 2.5 GHz**	
2	Insertion Loss	≤1.2 dB	**0.74 dB (See Plot)**	
3	VSWR	≤1.40:1	**1.30:1 (See Plot)**	
4	Isolation	20 dB Minimum	**20.24 dB (See Plot)**	
5	Amplitude Balance	≤±0.5 dB	**±0.07 dB (See Plot)**	
6	Phase Balance	≤±5°	**±3.40°**	
7	Power Handling	Forward ≤30 W Reversed ≤1 W	**Forward ≤30 W Reversed ≤1 W**	
8	Impedance	50 Ω	**50 Ω**	

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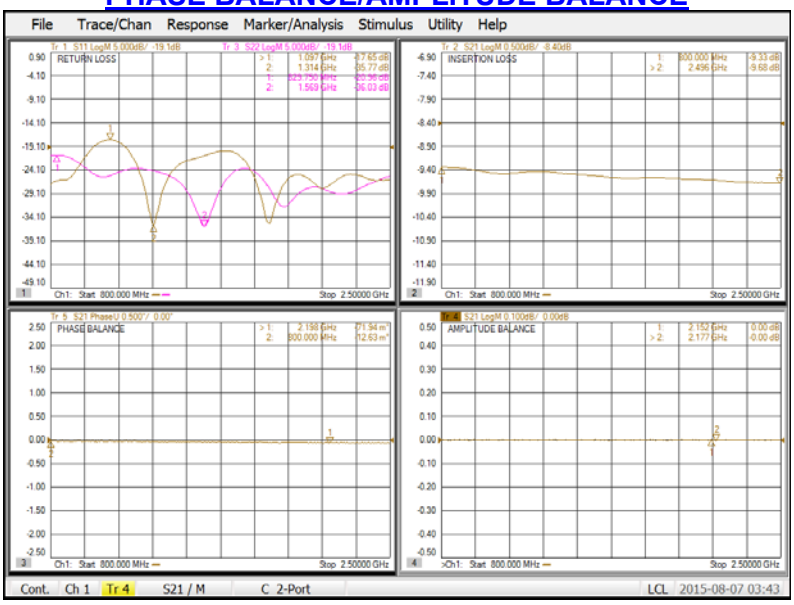
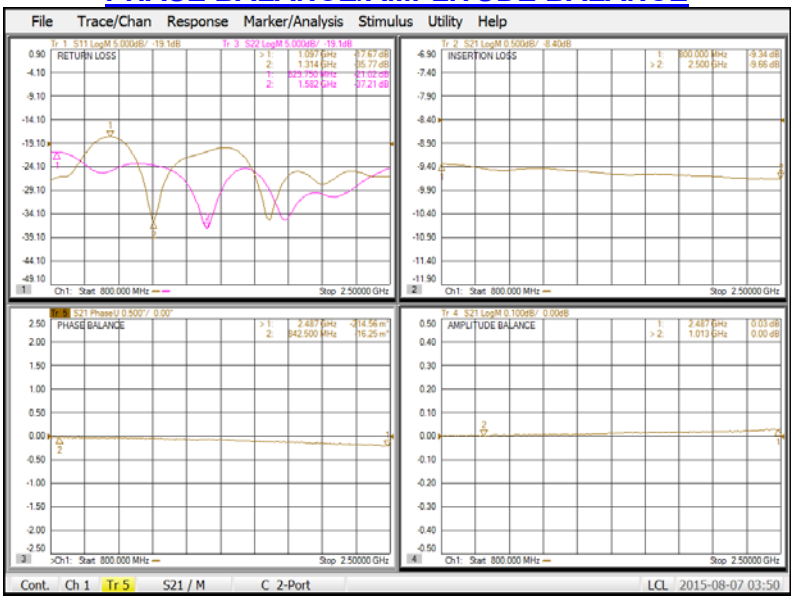
J1-J2
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE



J1-J3
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE



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TYPICAL CHARACTERISTICS
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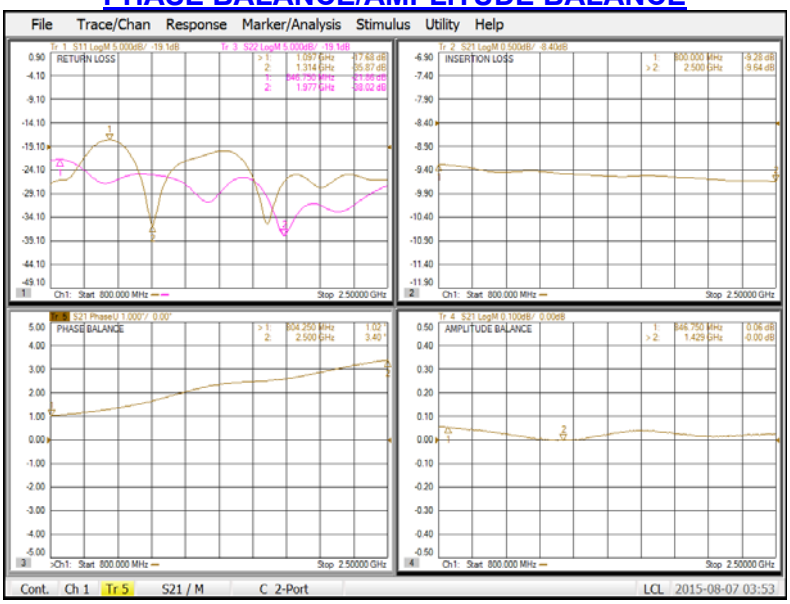
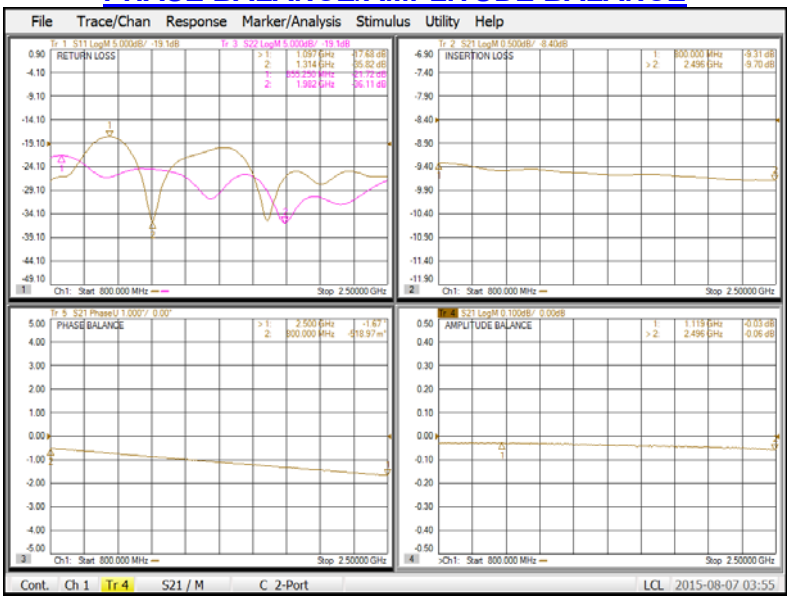
J1-J4
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE



J1-J5
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE



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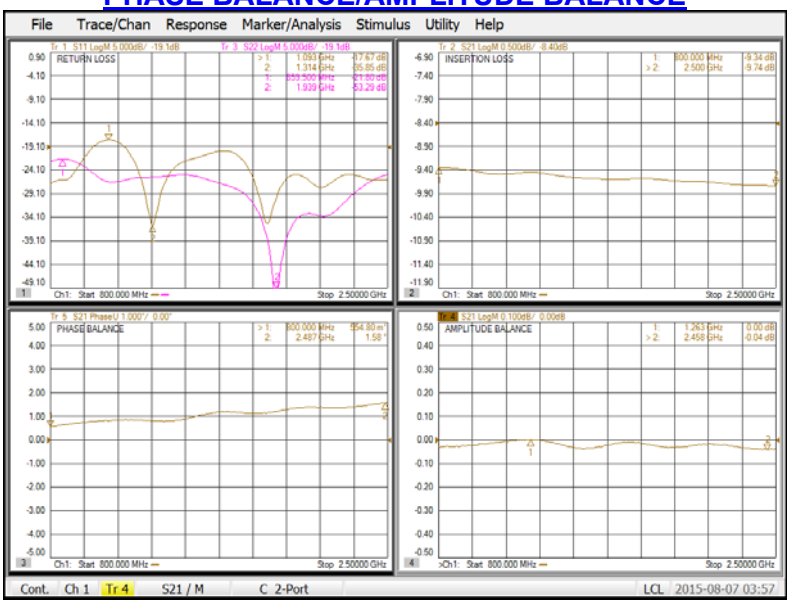
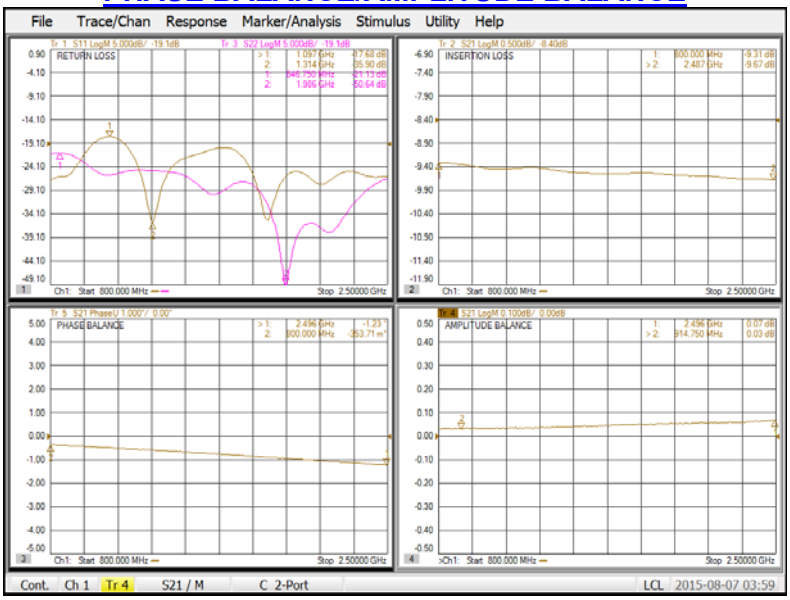
J1-J6
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE



J1-J7
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE



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TYPICAL CHARACTERISTICS
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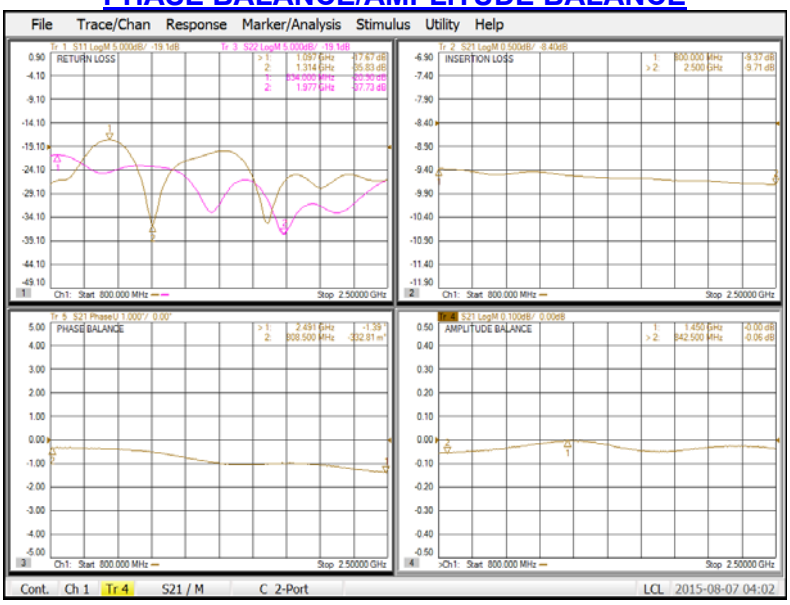
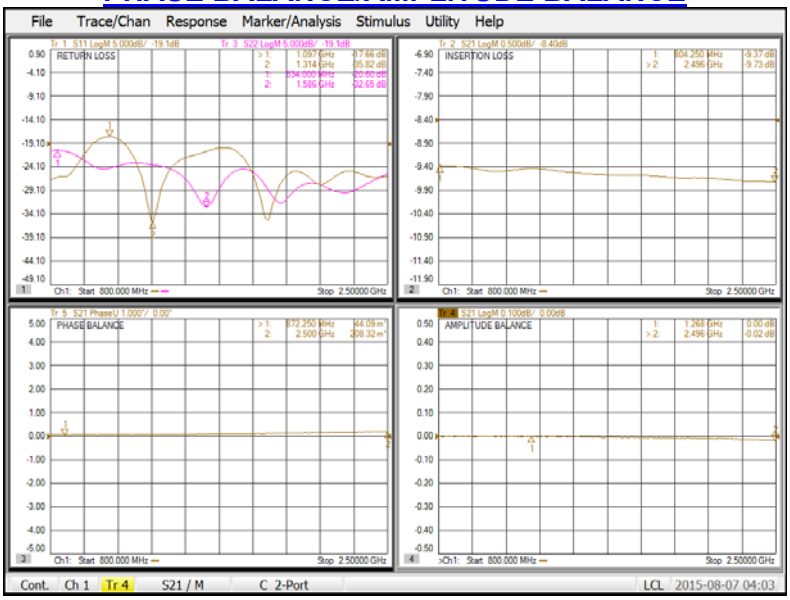
J1-J8
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE



J1-J9
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE



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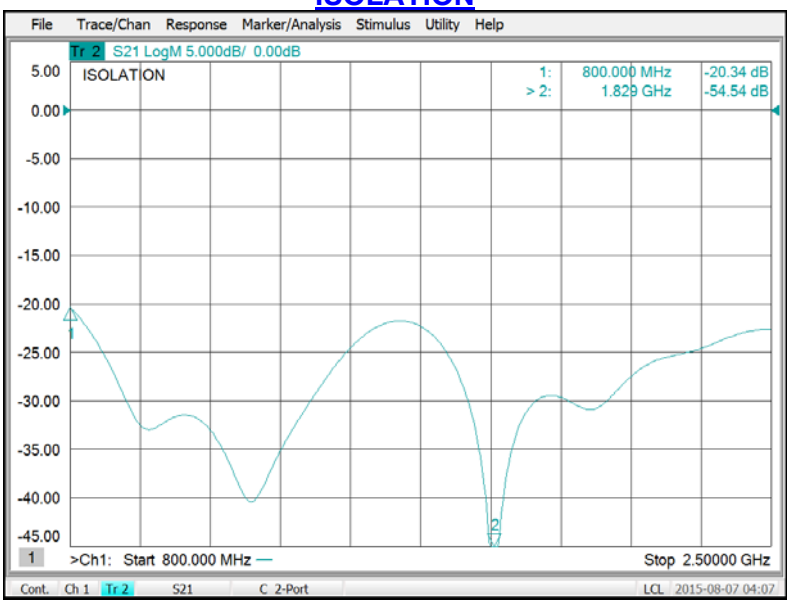
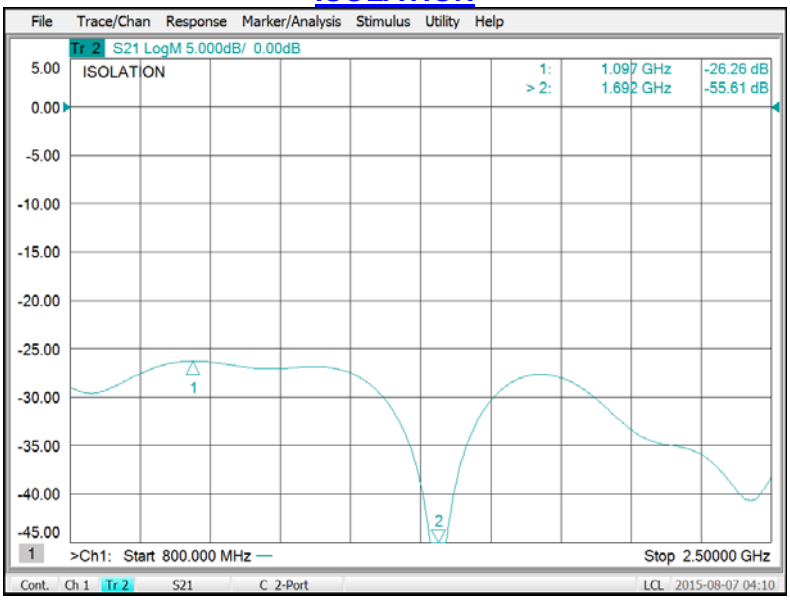
J2-J3
ISOLATION



J3-J4
ISOLATION



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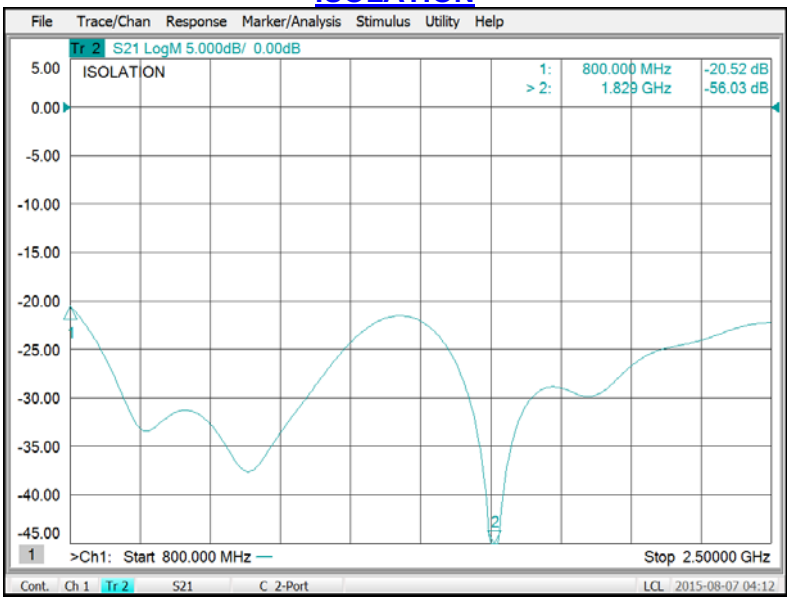
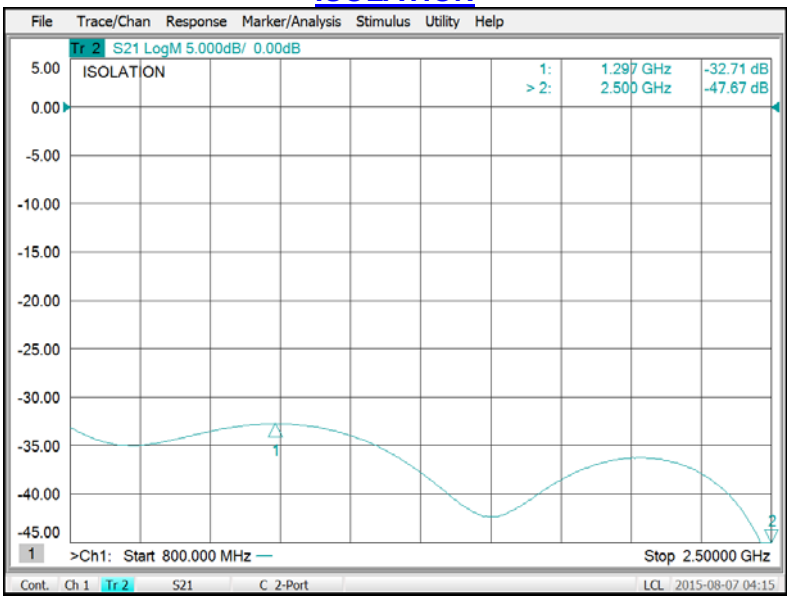
J4-J5
ISOLATION



J5-J6
ISOLATION



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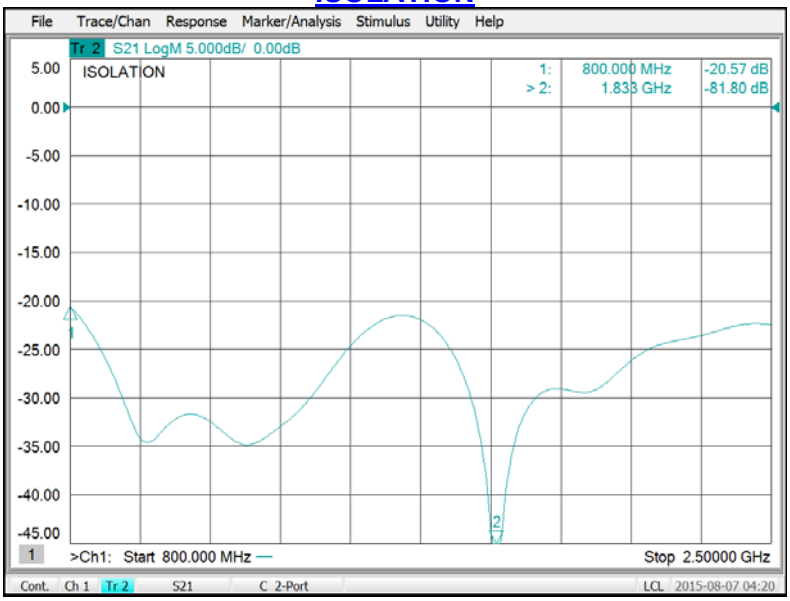
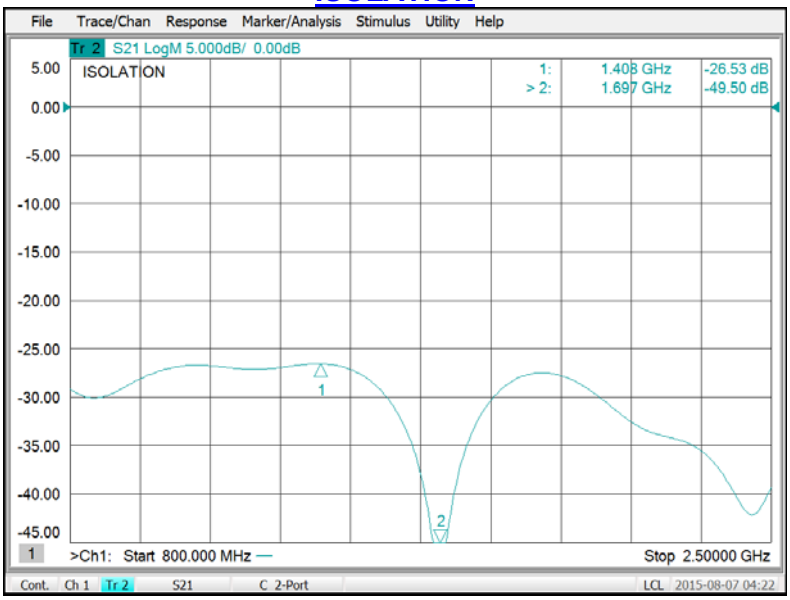
J6-J7
ISOLATION



J7-J8
ISOLATION



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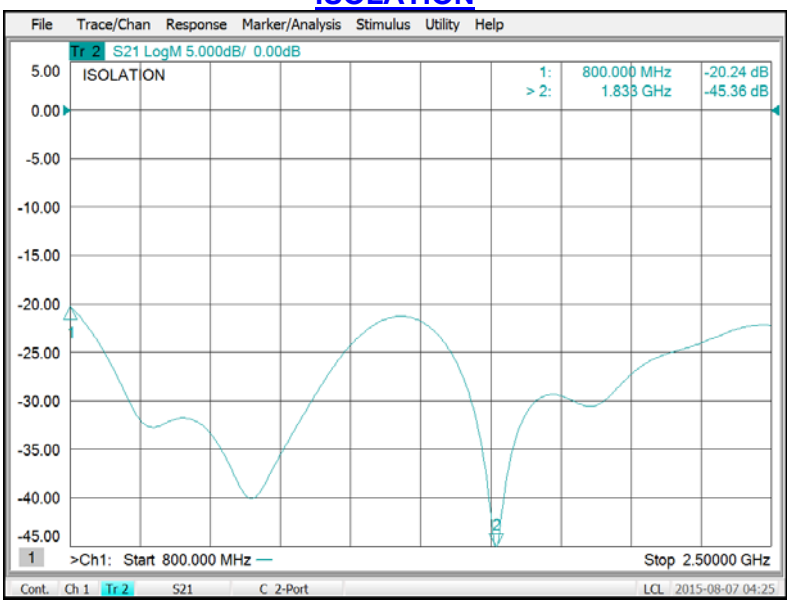
J8-J9
ISOLATION



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