



**TYPICAL CHARACTERISTICS
ON
APD-4-800M2D5G-SFF-30W**

**PMI MODEL APD-4-800M2D5G-SFF-30W IS A FOUR 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:
QUAN ANH CHU
RODRIGO SALVADOR**

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



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DESCRIPTION

PMI MODEL APD-4-800M2D5G-SFF-30W IS A FOUR 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: ≤ 0.7 dB
- VSWR: $\leq 1.25:1$
- ISOLATION: 20 dB MINIMUM
- AMPLITUDE BALANCE: $\leq \pm 0.3$ dB
- PHASE BALANCE: $\leq \pm 6^\circ$
- POWER HANDLING: FORWARD ≤ 30 W
REVERSED ≤ 1 W
- IMPEDANCE: 50 Ω
- CONNECTORS: SMA FEMALE (X5)
- FINISH: PAINTED BLUE

ENVIRONMENTAL RATINGS

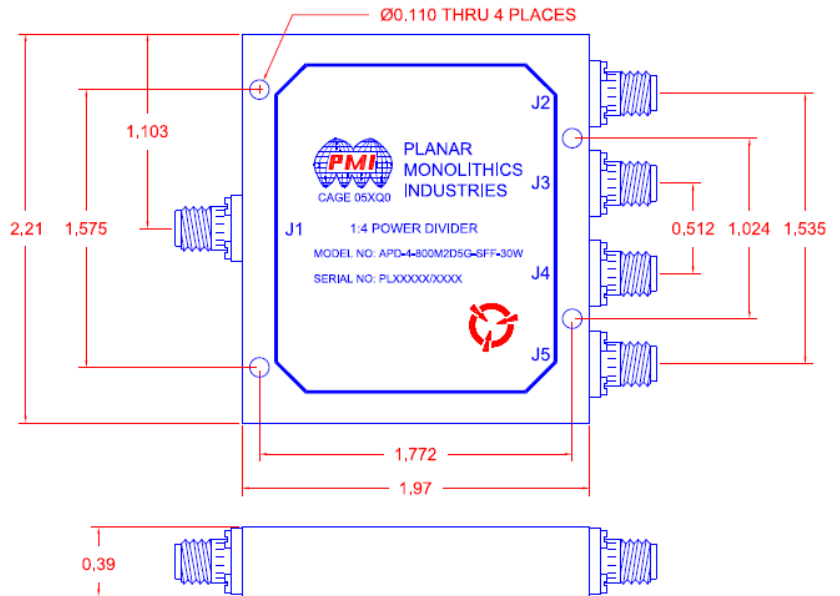
- TEMPERATURE: -55 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B
COND. B
- SHOCK: MIL-STD-202F, METHOD 213B
COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D
COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C
COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D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

NOTE) SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE) THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	05/14/15	

MECHANICAL OUTLINE



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

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	M.Berry	05/14/15	PRODUCT FEATURE APD-4-800M2D5G-SFF-30W		
CHECKED			SEE	FRCKM NO.	DWG NO.
ISSUED			A	05XQ0	27025661
			SCALE	N:S	SHEET 1 OF 1

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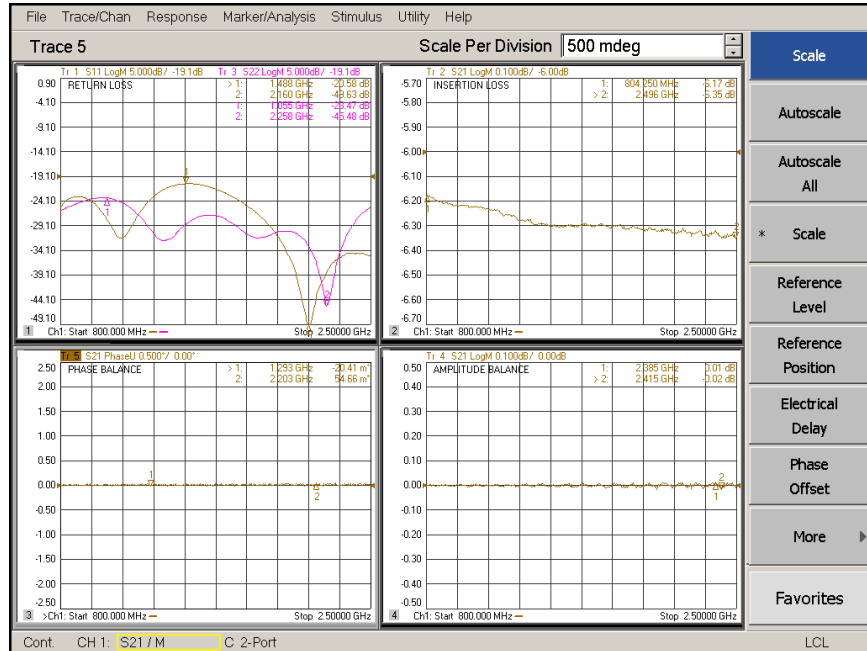
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	0.8 TO 2.5 GHz	0.8 TO 2.5 GHz	
2	Insertion Loss	≤0.7 dB	0.43dB (See Plot)	
3	VSWR	≤1.25:1	1.21:1 (See Plot)	
4	Isolation	20 dB Minimum	22.43dB (See Plot)	
5	Amplitude Balance	≤±0.3 dB	±0.09dB (See Plot)	
6	Phase Balance	≤±6°	±1.74°	
7	Power Handling	Forward ≤30 W Reversed ≤1 W	Forward ≤30 W Reversed ≤1 W	
8	Impedance	50 Ω	50 Ω	

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

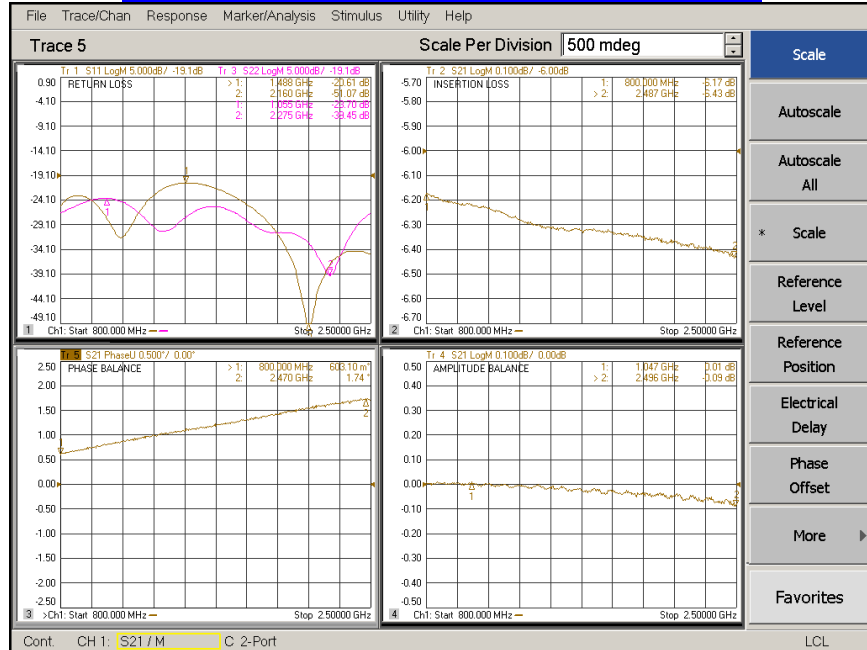
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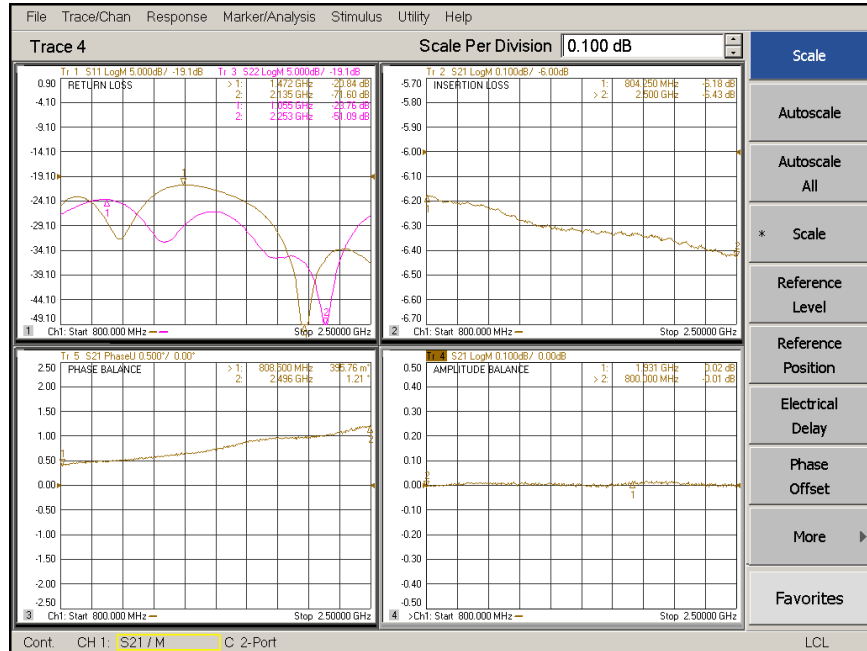
**J1-J3
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE**



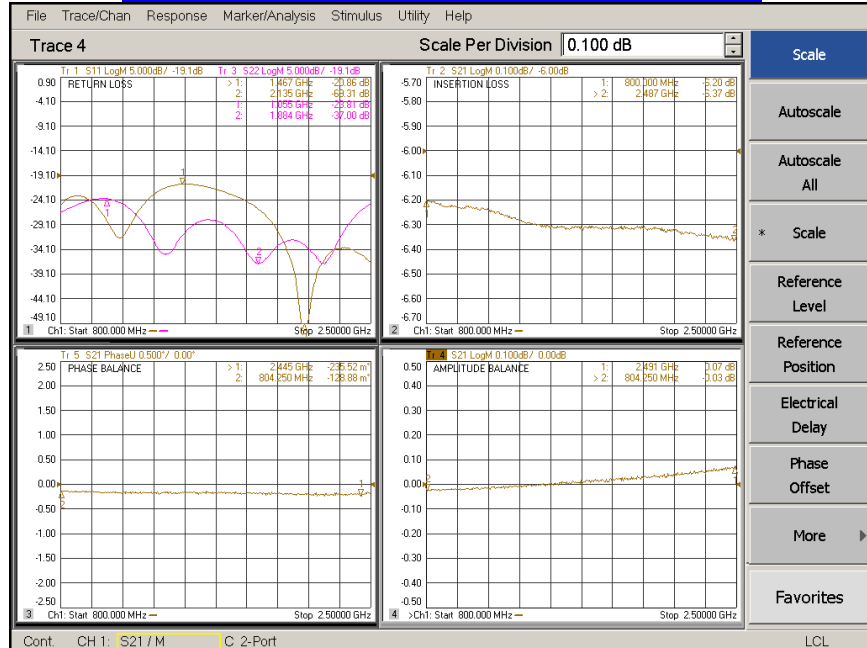
**J1-J4
RETURN LOSS/INSERTION LOSS
PHASE BALANCE/AMPLITUDE BALANCE**



TYPICAL CHARACTERISTICS ON APD-4-800M2D5G-SFF-30W



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

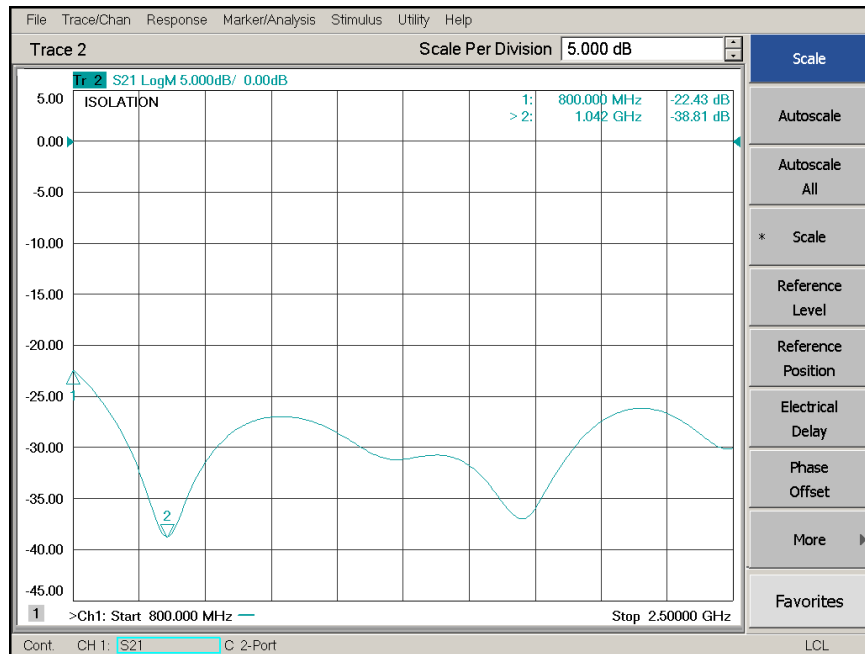


J2-J3 ISOLATION

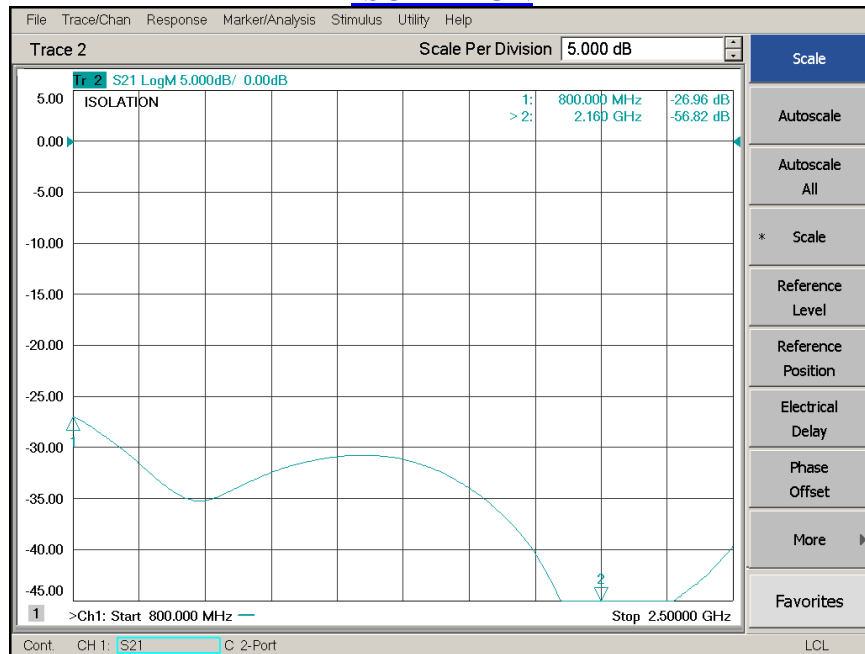
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J3-J4 ISOLATION





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J4-J5 ISOLATION

