

## TYPICAL CHARACTERISTICS

ON

### PDC-2G18G-10C-SFF-50W

PMI MODEL NO. PDC-2G18G-10C-SFF-50W IS A DIRECTIONAL COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 2.0 GHz TO 18.0 GHz.



Reported By: S. Lange  
Tested By: E. Kretz  
Date: 4/3/2025

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# TYPICAL CHARACTERISTICS ON PDC-2G18G-10C-SFF-50W

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/20/04	

**DESCRIPTION:**  
PMI MODEL NO. PDC-2G18G-10C-SFF-50W IS A DIRECTIONAL COUPLER THAT OPERATES OVER THE FREQUENCY RANGE OF 2.0 GHz TO 18.0 GHz.

**SPECIFICATIONS:**

- FREQUENCY RANGE: 2.0 GHz TO 18.0 GHz
- INSERTION LOSS: 0.7 dB MAX  
EXCLUDING COUPLING LOSS 0.46 dB
- COUPLING FACTOR: 10 ±0.7 dB MAX
- COUPLING SENSITIVITY: ±0.7 dB MAX
- DIRECTIVITY: 15 dB MIN
- VSWR: PRIMARY: 1.40:1 MAX  
SECONDARY: 1.40:1 MAX
- POWER HANDLING: INCIDENT: 50 W MAX  
REFLECTED: 2 W MAX
- IMPEDANCE: 50 Ω
- CONNECTORS: SMA FEMALE
- WEIGHT: 30 g
- FINISH: PAINTED BLUE

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: -55°C TO +85°C (OPERATING)
- HUMIDITY: UP TO 95%, NON-CONDENSING

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

MATERIALS:		APPROVALS		DATE	
DESIGN	S. LANGE	DESIGN	S. LANGE	10/20/04	
TRACED		TRACED			
NEXT ASSY	USED ON	SIZE	B	FORM NO.	05X00
APPLICATION		SCALE	2:1	DWG NO.	27050100

**PMI CONFIDENTIAL AND PROPRIETARY**

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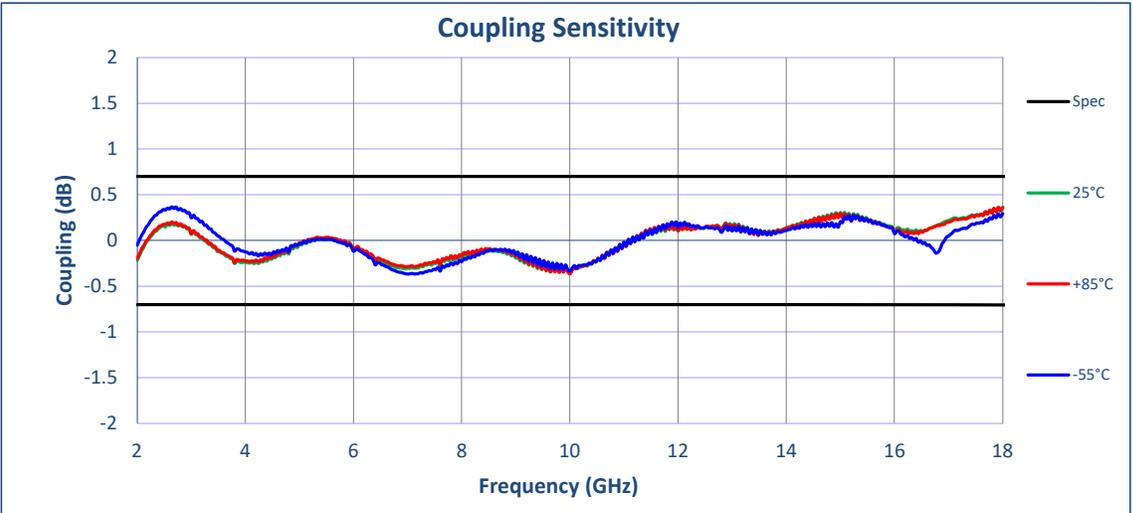
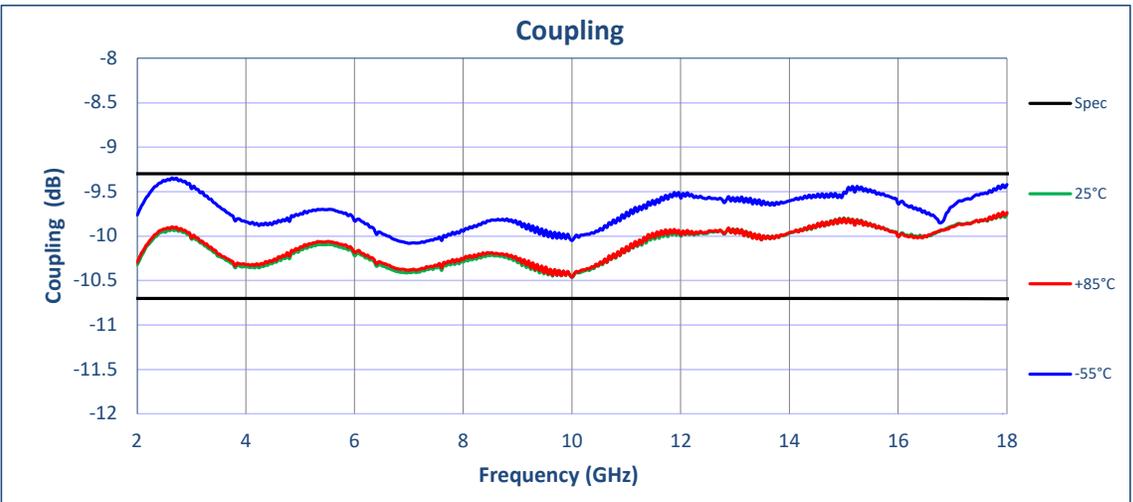
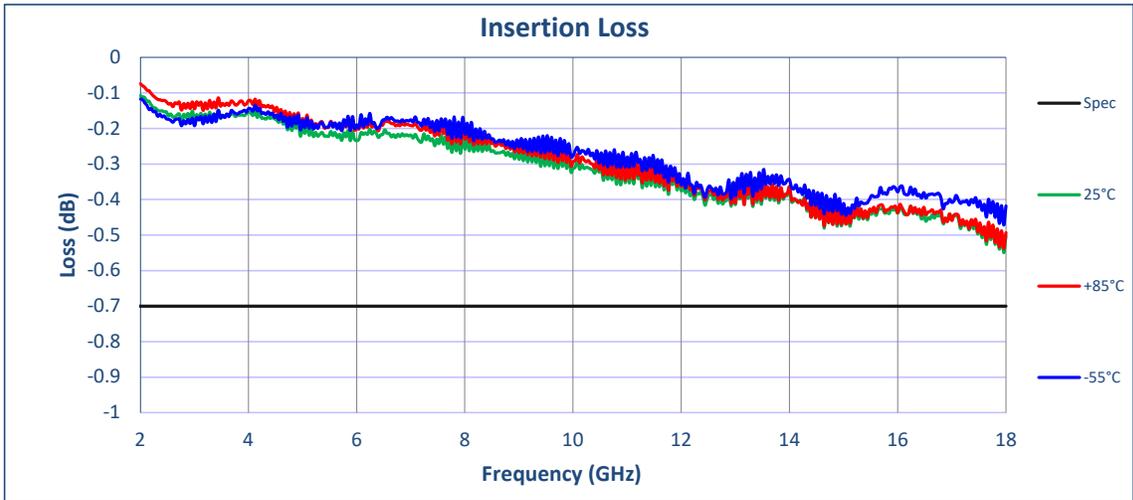
TITLE: OUTLINE  
PDC-2G18G-10C-SFF-50W  
REV: A1

SHEET 1 OF 1

**TYPICAL CHARACTERISTICS  
ON  
PDC-2G18G-10C-SFF-50W**

**TEST DATA**

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-55°C	+85°C
1	Frequency Range	2 GHz To 18 GHz	2 GHz To 18 GHz		
2	Insertion Loss	0.7 dB Max Excluding Coupling Loss: 0.46 dB	0.5 dB	0.5 dB	0.5 dB
3	Coupling Factor	10 ±0.7 dB Max	9.7 dB to 10.5 dB	9.3 dB to 10.1 dB	9.7 dB to 10.5 dB
4	Coupling Sensitivity	±0.7 dB Max	±0.36 dB	±0.37 dB	±0.36 dB
5	Directivity	15 dB Min	17.3 dB	19.2 dB	17.4 dB
6	VSWR	Primary 1.40:1 Max Secondary 1.40:1 Max	1.25:1 Primary 1.27:1 Secondary	1.24:1 Primary 1.26:1 Secondary	1.25:1 Primary 1.28:1 Secondary
7	Power Handling	Incident: 50 W Max Reflected: 2 W Max	See Graphs		



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