



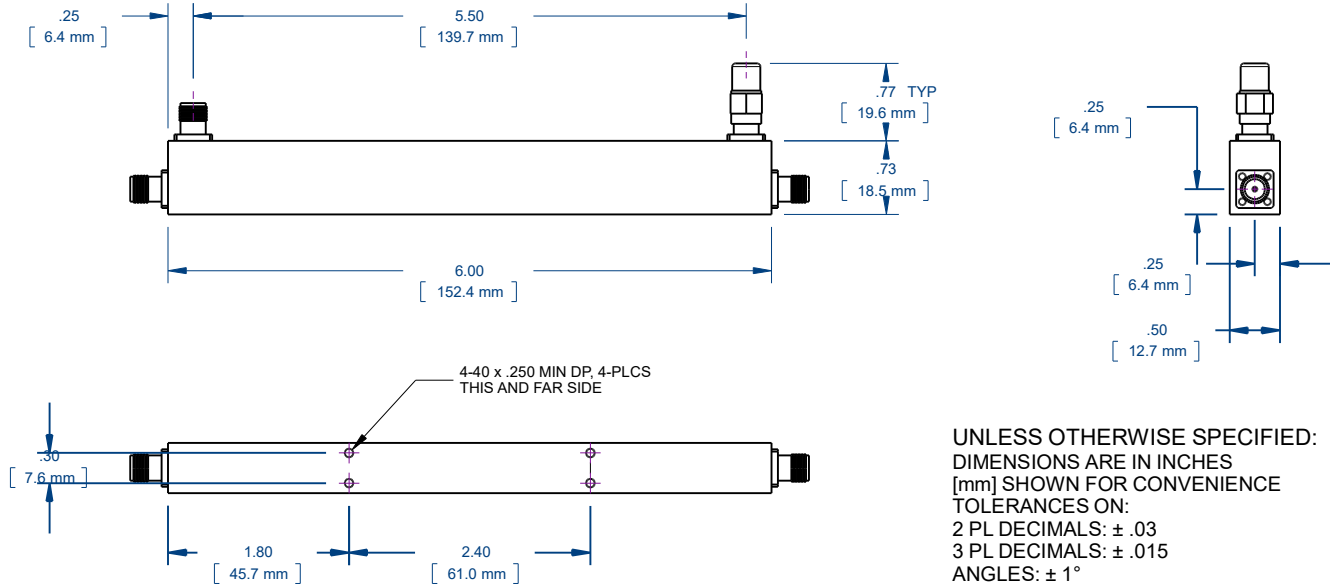
10-dB Directional Coupler

Stripline, 0.3-8GHz, SMA-Female

RoHS
Compliant

Specification and performance test data plots on following pages.

Outline



UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 [mm] SHOWN FOR CONVENIENCE
 TOLERANCES ON:
 2 PL DECIMALS: ± .03
 3 PL DECIMALS: ± .015
 ANGLES: ± 1°

Features

- * Broadband performance.
- * Excellent VSWR at all ports: 1.15:1 typ.
- * High directionality: 26+ dB typ.

REV	DESCRIPTION	DATE	APPROVED
0	Engineering release.	2-9-2018	ETW
1	ECN 1321	3-21-2018	ETW

SIZE A	CAGE CODE 78YZ0	DRWG NO. SPEC-WMDC10-0.3-8-S-A3	REV. 1
SCALE 1 : N/A		SHEET	

Specifications subject to change without notice.
 This document shall not form part of a contract.

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Made in U.S.A.

10-dB Directional Coupler

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Specification	Value	Value	Unit	Notes
Frequency Range	0.3 - 6	6 - 8	GHz	
Coupling Mean Value	10		dB	As obtained from VNA mean value statistic display.
Coupling Tolerance	± 1.0		dB, max.	Range of VNA mean value statistic display.
Coupling Flatness	± 1.2		dB, max.	As obtained from VNA min/max marker values.
Directivity	20	18	dB, min.	
Insertion Loss	1.3	1.7	dB, max.	Includes loss due to coupling factor.
VSWR (All ports)	1.2	1.3	:1, max.	
Forward Power	20		W, max.	Average power. Max load VSWR 1.20:1.
Reverse Power	3		W, max.	Average power. Max load VSWR 1.20:1.
Impedance	50		Ohms	Design to meet.
Connectors (Mainline Input/Output)	SMA Female			Body: Stainless Steel 303, Insulator: PTFE Socket Contact: BeCu, Gold Plated
Connectors (Coupled Port)	SMA Female			
Operating Temperature Range	-54 to +85		°C	Design to meet. Tested at +23°C nominal.
Storage Temperature Range	-54 to +125		°C	Design to meet.
Relative Humidity	85		%, max.	Non-condensing.
Operating Environment	Indoor use only.			
Enclosure Material / Finish	Aluminum Alloy 6061 / RoHS Clear Chemical Conversion, MIL-DTL-5541 Class 3			
Solder Alloy(s) Used	Sn 96.5, Ag 3.0, Cu 0.5			
Weight	3.8 oz nominal.			

Options

- 001.) Low-profile termination.
- 002.) Horizontal-mount bracket.



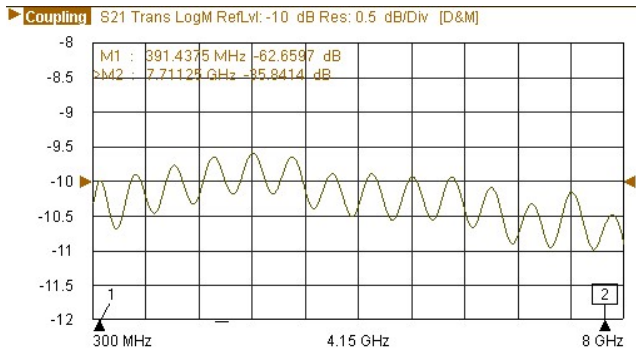
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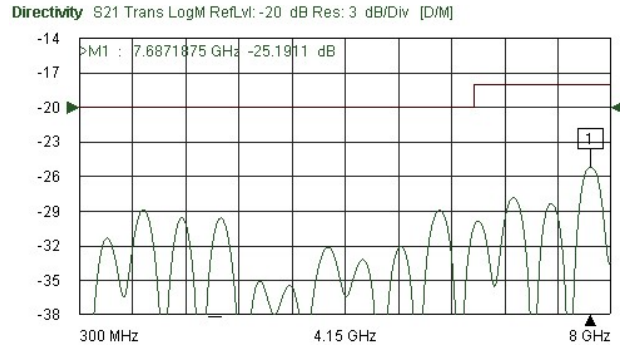
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Typical Performance Test Data

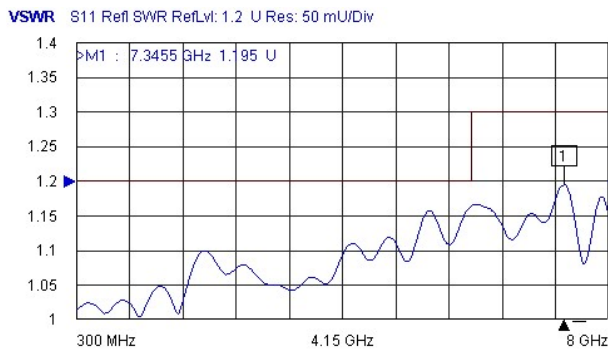
Coupling



Directivity



Return Loss



Insertion Loss

