



Model WMDCXX-0.1-250M-X-A9 Dual Directional Coupler

100kHz-250MHz, 40 or 50 dB, N- SMA- or BNC-Female Coupled Ports

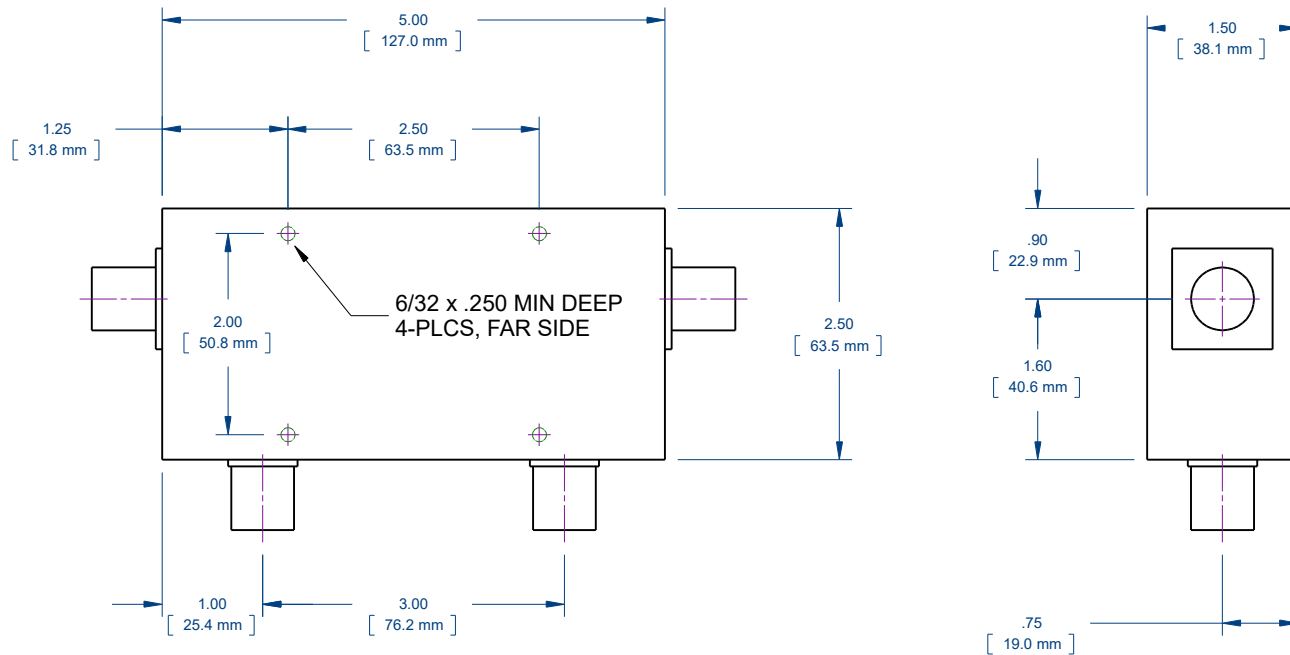
RoHS
Compliant

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

Table 1 - Part Numbering Explanation

Order Part Number	Main Line	Coupled Ports
WMDCXX-0.1-250M-N-A9	N-Female	N-Female
WMDCXX-0.1-250M-NS-A9	N-Female	SMA-Female
WMDCXX-0.1-250M-NB-A9	N-Female	BNC-Female

Substitute XX with desired coupling value in dB (40 or 50).



Specification Tables and Part Numbering Explanation on Following Page.

PRODUCT CHANGE NOTICE

This model replaces previous models. Request document PCN-1007 for details.

REV	DESCRIPTION	DATE	APPROVED
0	Redesign, re-release, new part numbering system.	1-28-2018	ETW

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

SIZE A	CAGE CODE 78YZ0	DRWG NO. SPEC-WMDCXX-0.1-250M-X-A9	REV. 0
SCALE 1 : N/A		SHEET	

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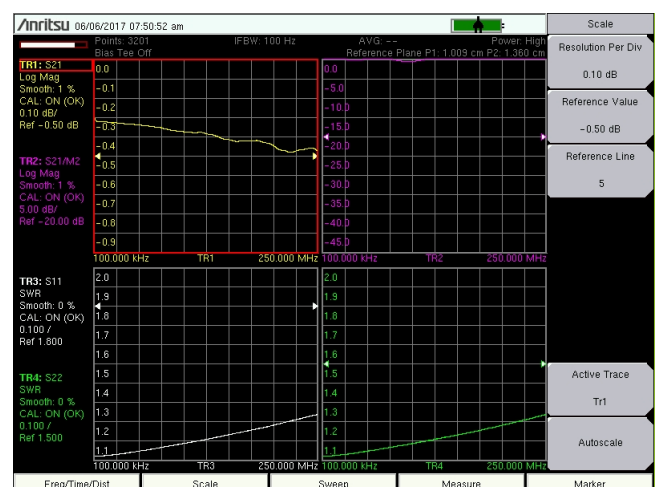
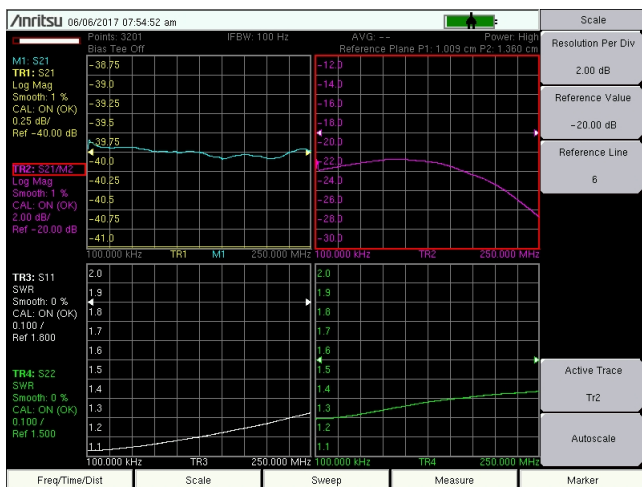
Table 2 - Specifications

Electrical Specifications	Min	Typ	Max	Unit	Notes
Frequency Range	0.1		250	MHz	
Coupling Mean Value		40 or 50		dB	As obtained from VNA max/min marker values.
Coupling Tolerance			± 1.0	dB	Upper/lower limit of mean value.
Coupling Flatness		± 0.25	± 1.0	dB	As obtained from VNA max/min marker values.
Directionality	20			dB	
Main Line Insertion Loss			0.55	dB	Includes loss to coupling factor.
Forward Power			250	W	Load VSWR 1.20:1 max.
Reverse Power			250	W	
Main Line VSWR			1.25	:1	
Coupled Port VSWR			1.35	:1	
Impedance		50		Ohms	
Mechanical Specifications	Min	Typ	Max	Unit	Notes
Operating Temperature	-10		+55	°C	Tested at +25 °C.
Storage Temperature	-40		+85	°C	
Relative Humidity			85	%	Non-condensing.
Operating Environment					Indoor use only.
Enclosure Material					Aluminum Alloy 6061 and 5052
Enclosure Finish					RoHS Complaint Clear Chemical Film per MIL-DTL-5541 Class 3
Connectors Material					Body: Stainless Steel 303 Contact Pin: Beryllium Copper, Gold Plate Insulator: PTFE
Solder Alloy					Sn 96.5, Ag 3.0, Cu 0.5 Sn 42, Bi 57.6, Ag 0.4 (Special-Purpose)

Typical Test Data

Coupling, Directionality
 Input VSWR, Coupled VSWR

Insertion Loss
 Input VSWR, Output VSWR



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