

PRODUCT DATA SHEET

C10762

4-Port Dual Directional Coupler employs two, 3-Port Uni-Directional Couplers, internally connected, in tandem, providing measurement of both forward and reverse power. Ideal for simultaneously monitoring a system's forward and reverse power and for reflectometer measurements. Unlike the Bi-Directional Coupler, the directivity of the Dual Directional Coupler is unaffected by the loads on the coupled ports.

Features:

High Power Wide Bandwidths Small Size Flat Coupling Custom Designs Available

Electrical Specifications:

Frequency: 1000 - 6000 MHz
Power: 300 W CW
Coupling: 40 ± 1.0 dB Max.
Insertion Loss: 0.2 dB Max.
Flatness: ± 0.5 dB Max.
VSWR (ML): 1.30:1 Max. (1.35:1 Max. with 7/16 ML connectors)
Directivity: 15 dB Min.

Mechanical Specifications:

Type: Connectorized
Material: Aluminum 6061-T6
Surface Finish: Chem. Film Per MIL-DTL-5541F
Type II Class 3 (Clear Iridite)
RoHS Compliant Available
Operating Temperature: -55°C to +75°C
Storage Temperature: -60°C to +85°C
Humidity: 95% Non-Condensing
Size: 2.0 x 2.0 x 1.06"

Connector Configurations:

Model	Input (J1)	Output (J2)	Fwd (J3)	Rev (J4)
C10762-10	N Female	N Female	N Female	N Female
C10762-12	N Female	N Female	SMA	SMA
C10762-14	N Male	N Male	N Female	N Female
C10762-20*	7/16 Female	7/16 Female	7/16 Female	7/16 Female
C10762-22*	7/16 Female	7/16 Female	SMA	SMA
C10762-612	N Female	N Male	SMA	SMA
C10762-714	N Male	N Female	N Female	N Female
C10762-727*	7/16 Male	7/16 Female	N Female	N Female

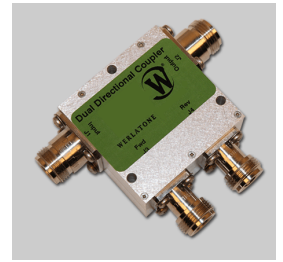
*Starred options are 3.0 x 3.0 x 1.36"



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Model C10762

Connectorized Directional Couplers

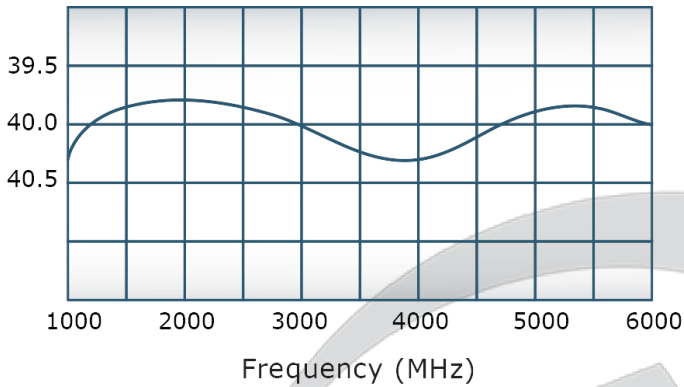


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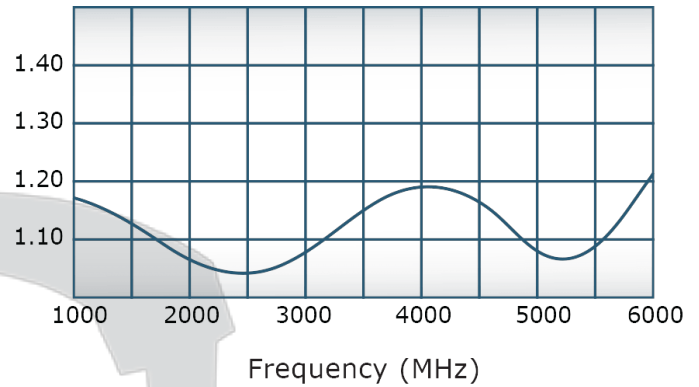
C10762

Performance Data (Specifications subject to change without notice):

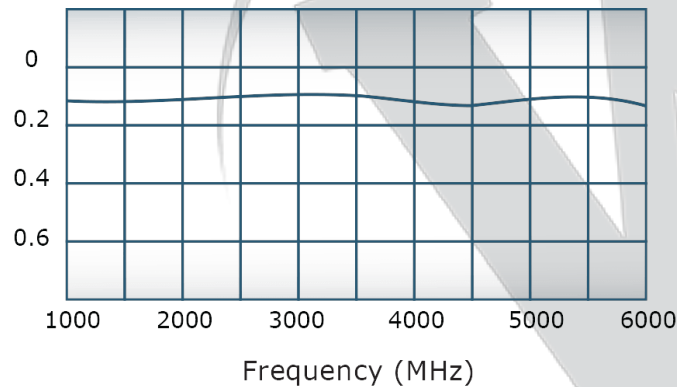
Coupling:



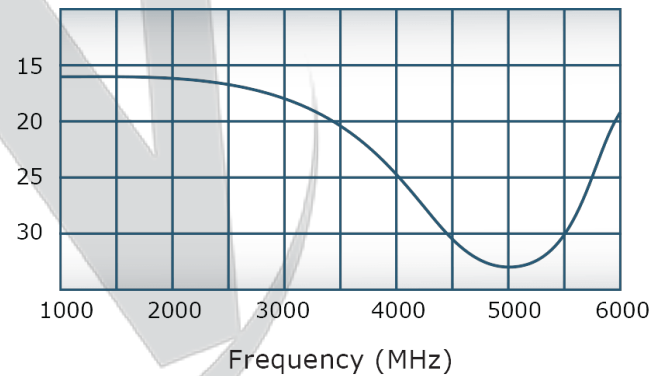
VSWR:



Insertion Loss:



Directivity:

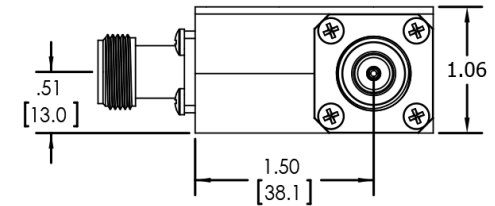
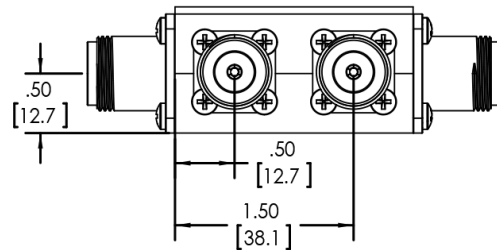
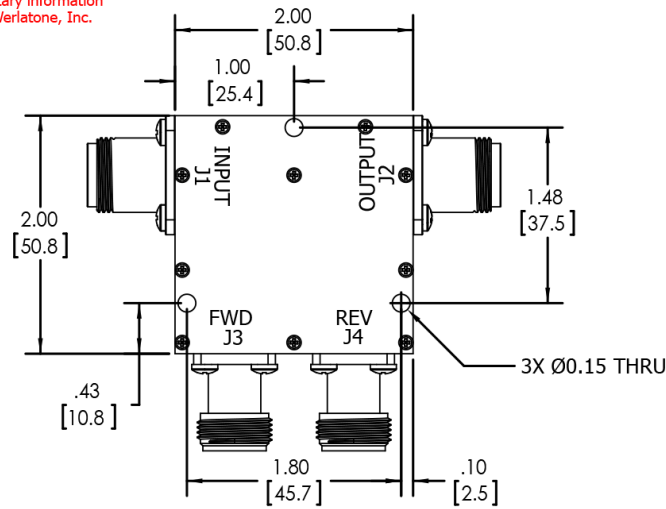


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REVISION HISTORY			
REV.	REVISION RECORD	DATE	APPROVED
	PRE-RELEASE		



UNLESS OTHERWISE SPECIFIED		DATE	9/30/2014	17 Jon Barrett Rd Patterson, NY 12563
INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100	DATE	9/30/2014	TITLE OUTLINE	
DIMENSIONS ARE IN INCHES (mm)	DATE	9/30/2014		
DIMENSIONAL LIMITS APPLY BEFORE PROCESSES	DATE	9/30/2014	SIZE	CAGE CODE
TOLERANCES:	DATE	9/30/2014	B 28812	21250-500
ANGLES ± 2°	DATE	9/30/2014	SCALE	1:1
3 PL ± .005 (.13)	DATE	9/30/2014	REV	-
2 PL ± .015 (.4)	DATE	9/30/2014	SHEET	1 OF 1
REMOVE ALL BURRS AND SHARP EDGES R.01 MAX	DATE	9/30/2014		
CONCENTRICITY MACHINED DIA. .002 FIM	DATE	9/30/2014		
MACHINE TOOL MATCH .003 MAX	DATE	9/30/2014		
THIRD ANGLE PROJECTION	DATE	9/30/2014		

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