

## DUAL DIRECTIONAL COUPLER

**CD10-0106**

The CD10-0106 is an ultra high directivity 0.7-6.3 GHz, 10 dB dual directional coupler. The multisection tri-plate stripline design exhibits excellent coupling flatness and VSWR at all ports. Applications include reflectometry (return loss) measurements, level monitoring, etc. Custom designs are also available, contact the factory for details.

### Features

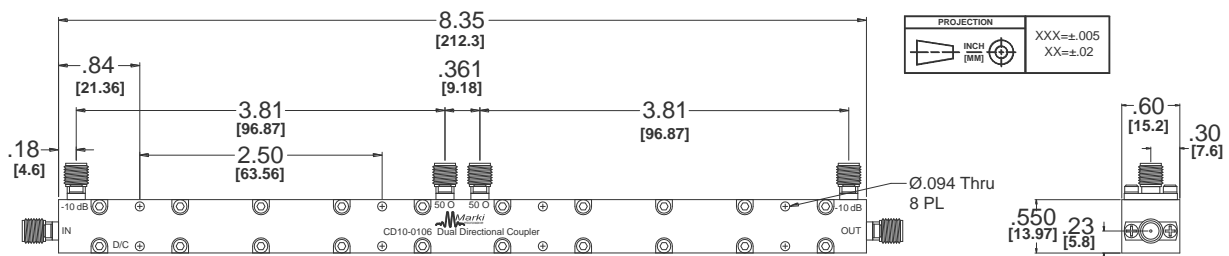
- Dual Directional
- Ultra High Directivity
- Excellent Coupling Flatness
- Low VSWR

### Electrical Specifications

Parameter <sup>1</sup>	Frequency Range (GHz)	Min	Typ	Max	
Mean Coupling (dB)	0.7-6.3		10		
Amplitude Flatness (dB) <sup>2</sup>			±0.6	±1.75	
Direct Line Insertion Loss (dB)					2.4
VSWR					1.28
Directivity (dB)			25		
Weight (g)				132	

<sup>1</sup>Specifications guaranteed when operated in a 50Ω system.

<sup>2</sup>Deviation from average coupling.



Typical Performance

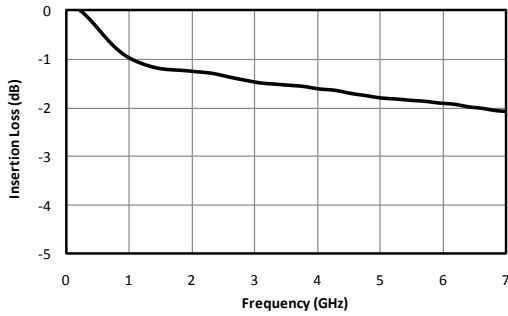


Fig. 1. Direct line insertion loss.

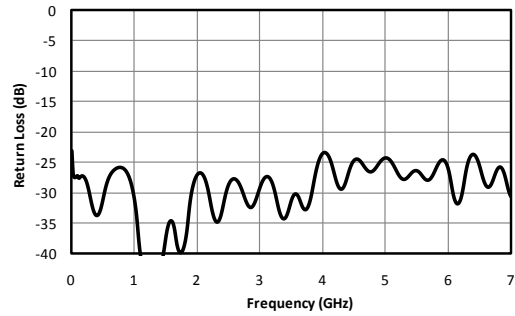


Fig. 2. Typical port return loss.

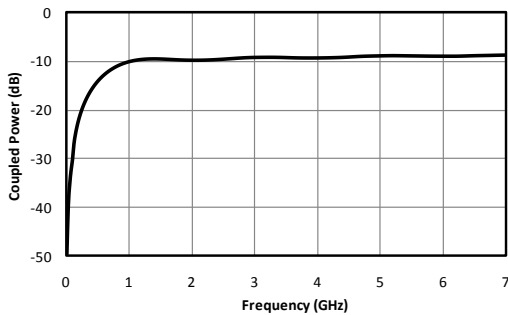


Fig. 3. Coupled port power.

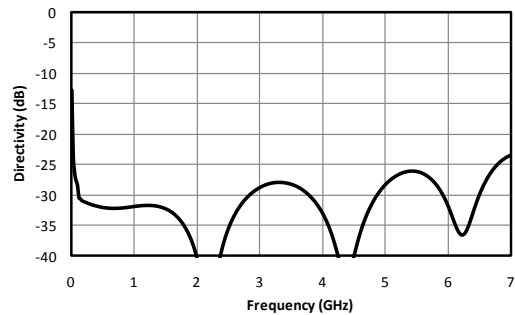


Fig. 4. Typical directivity.

Model Number	Description
CD10-0106	0.7-6.3 GHz Ultra High Directivity, 10 dB Dual Directional Coupler with SMA Female connectors

Marki Microwave reserves the right to make changes to the product(s) or information contained herein without notice. Marki Microwave makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Marki Microwave assume any liability whatsoever arising out of the use of or application of any product.

© Marki Microwave, Inc.

