

## **DIRECTIONAL COUPLER**

C10-0226

The C10-0226 is a broadband 2-26.5 GHz, 10 dB directional coupler. The multisection tri-plate stripline design exhibits excellent coupling flatness and VSWR at all ports. Custom designs are also available, contact the factory for details.



#### **Features**

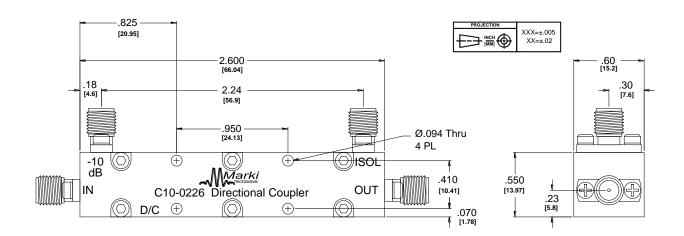
- Broadband Performance
- Excellent Coupling Flatness
- High Directivity
- Low VSWR
- Microwave Power Dividers & Couplers App Note

### **Electrical Specifications**

Parameter <sup>1</sup>	Frequency Range (GHz)	Min	Тур	Max
Mean Coupling (dB)			10	
Amplitude Flatness (dB) <sup>2</sup>	2-26.5		±0.6	±1.2
Direct Line Insertion Loss (dB)				1.8
VSWR	2-20		1.15	1.35
	20-26.5			1.5
Directivity (dB)	2-20	15	22	
	20-26.5	12	18	
Weight (g)			45	

Specifications guaranteed when operated in a  $50\Omega$  system.

<sup>&</sup>lt;sup>2</sup>Deviation from average coupling.





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### **Typical Performance**

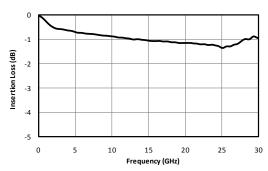


Fig. 1. Direct line insertion loss.

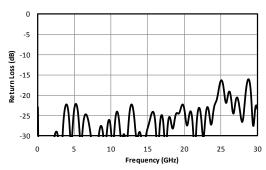


Fig. 2. Typical port return loss.

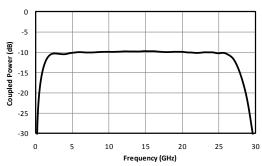


Fig. 3. Coupled port power.

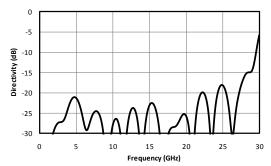


Fig. 4. Typical directivity.

Model Number	Description	
C10-0226	2-26.5 GHz 10 dB Directional Coupler with SMA connectors <sup>1</sup>	

<sup>1</sup>Default is SMA female connectors. Consult factory for other connector options.

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