

## LEAD-FREE / RoHS-COMPLIANT

### DIRECTIONAL COUPLER

**C20-0R520**

The C20-0R520 is a broadband 0.5-20 GHz, 20 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
- High Directivity
- Low VSWR

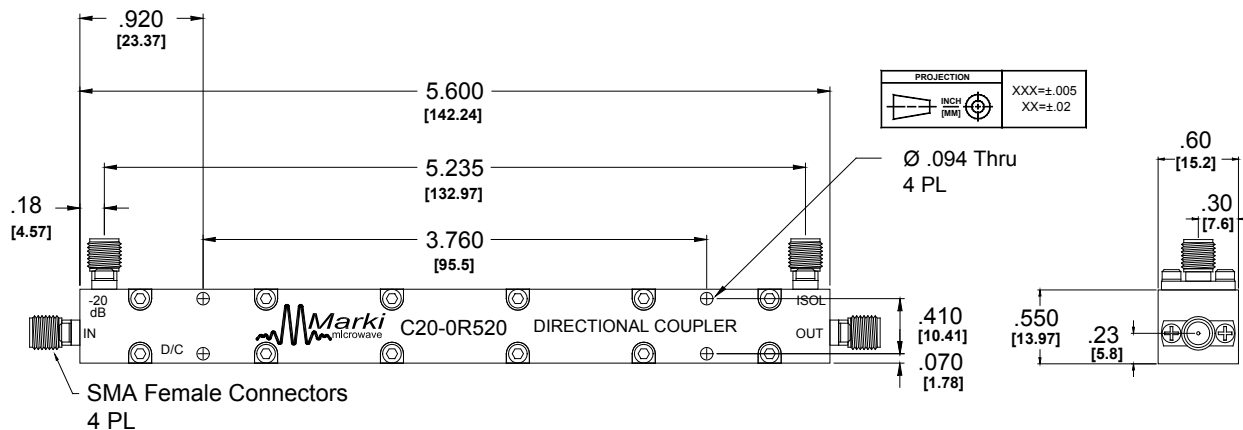


#### Electrical Specifications

Parameter <sup>1</sup>	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)	0.5-20		20	
Amplitude Flatness (dB) <sup>2</sup>			±0.75	±2
Direct Line Insertion Loss (dB)				1.5
VSWR			1.2	1.35
Directivity (dB)	0.5-12	15	22	
	12-20	12	16	
Weight (g)			90	

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

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



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## Typical Performance

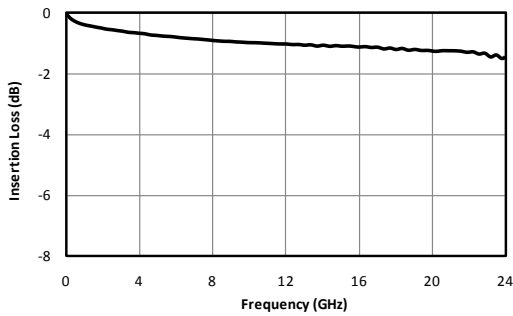


Fig. 1. Direct line insertion loss.

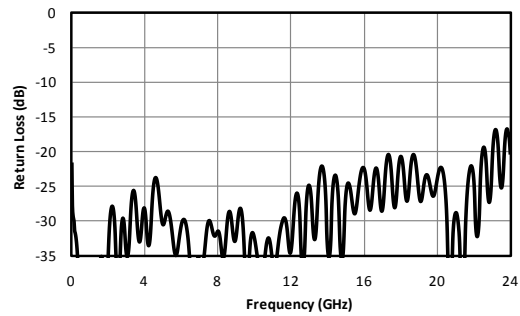


Fig. 2. Typical port return loss.

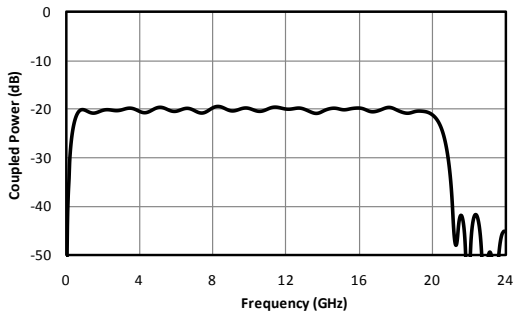


Fig. 3. Coupled port power.

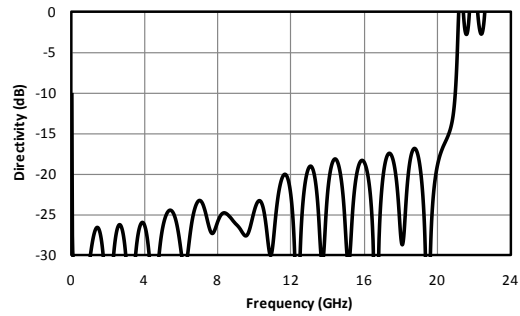


Fig. 4. Typical directivity.

Model Number	Description
C20-0R520	0.5-20 GHz 20 dB Directional Coupler with SMA connectors <sup>1</sup> , <b>LEAD-FREE/RoHS COMPLIANT</b>

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

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