

LEAD-FREE / RoHS-COMPLIANT

DIRECTIONAL COUPLER

C20-0240

The C20-0240 is a broadband 2-40 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
- Excellent Coupling Flatness
- High Directivity
- Low VSWR
- [Microwave Power Dividers & Couplers App Note](#)

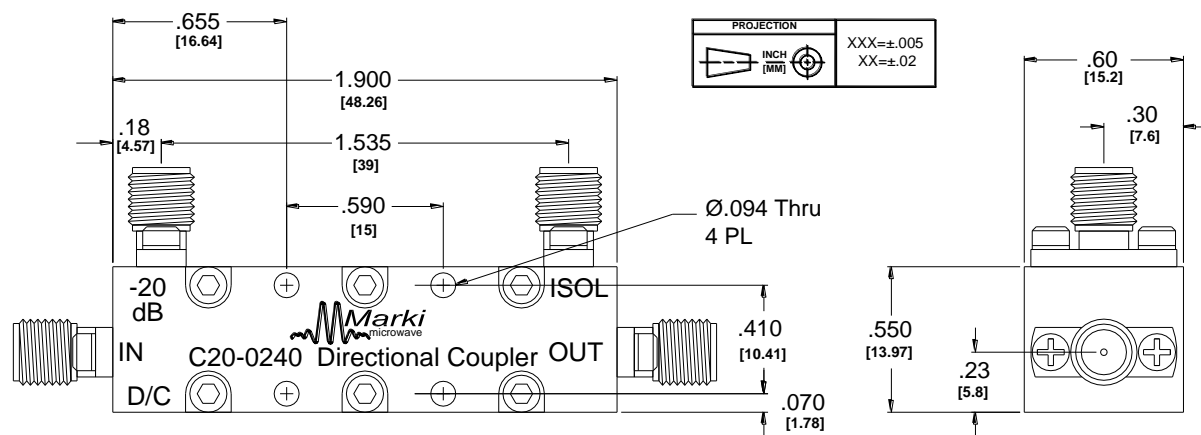


Electrical Specifications

Parameter ¹	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)	2-40		20	
Amplitude Flatness (dB) ²			±0.75	±1.75
Direct Line Insertion Loss (dB)	DC-40			1.6
VSWR	2-30		1.3	1.45
	30-40			1.6
Directivity (dB)	2-30	13	17	
	30-40	9	13	
Weight (g)			36	

¹Specifications guaranteed when operated in a 50Ω system.

²Deviation from average coupling.



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Typical Performance

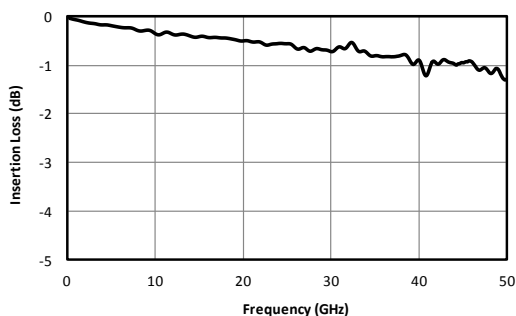


Fig. 1. Direct line insertion loss.

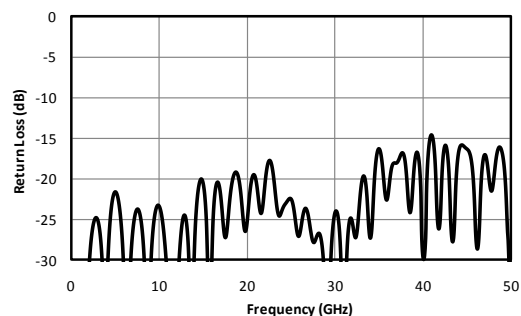


Fig. 2. Typical port return loss.

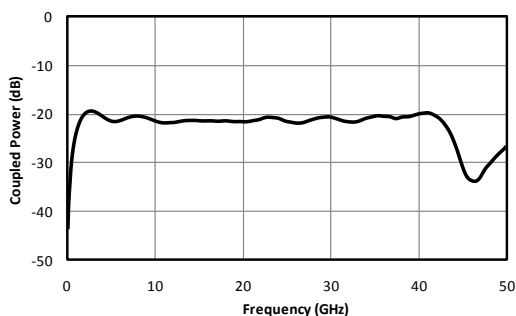


Fig. 3. Coupled port power.

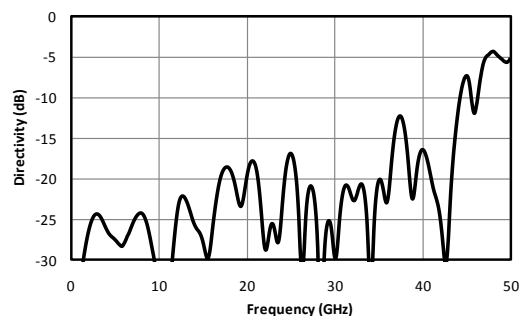


Fig. 4. Typical directivity.

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Model Number	Description
C20-0240	2-40 GHz 20 dB Directional Coupler with 2.92 mm connectors ¹ , LEAD-FREE/ROHS COMPLIANT

¹Default is 2.92 mm female connectors. Consult factory for other connector options.

Revision History

Revision code	Revision Date	Comment
G	4/2020	Updated Direct Line IL specs

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