LEAD-FREE / RoHS-COMPLIANT

DIRECTIONAL COUPLER C13-0150

The C13-0150 is an ultra broadband 1-50 GHz, 13 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.



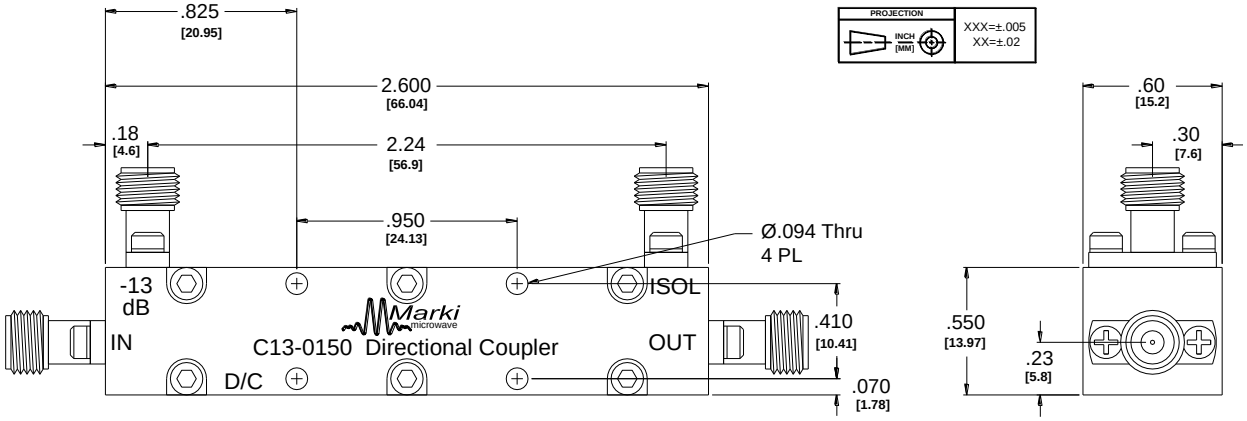
Features

- Ultra 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)	1-50		13	
Amplitude Flatness (dB) [2]			±0.75	±1.75
Direct Line Insertion Loss (dB)	DC-50			2.2
VSWR	1-20		1.25	1.4
	20-50			1.65
Directivity (dB)	1-30	13	16	
	30-50	9	12	
Weight (g)			45	

[1]Specifications guaranteed when operated in a 50Ω system.
[2]Deviation from average coupling.



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Typical Performance

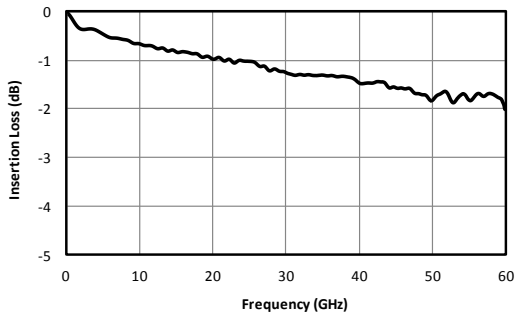


Fig. 1. Direct line insertion loss.

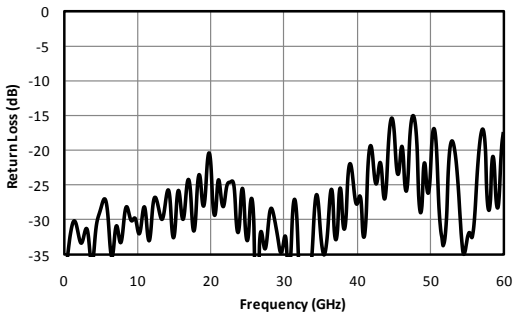


Fig. 2. Typical port return loss.

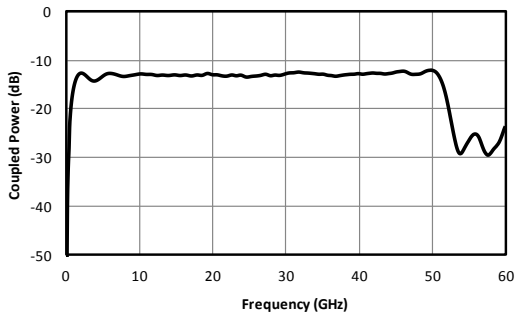


Fig. 3. Coupled port power.

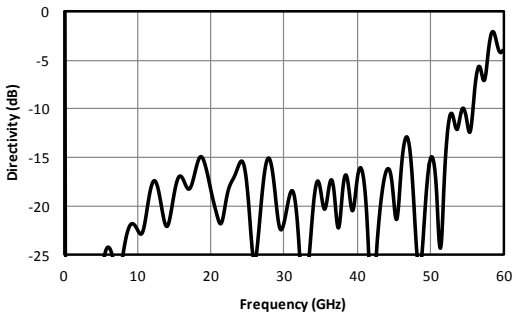


Fig. 4. Typical directivity.

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Model Number	Description
C13-0150	1-50 GHz 13 dB Directional Coupler with 2.4 mm connectors[1], LEAD-FREE/RoHS COMPLIANT

[1]Default is 2.4 mm female connectors. Consult factory for other connector options.

Revision History

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

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