

## LEAD-FREE / RoHS-COMPLIANT

### DIRECTIONAL COUPLER

**C09-0R426**

The C09-0R426 is a broadband 0.45-26.5 GHz, 9 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](#)

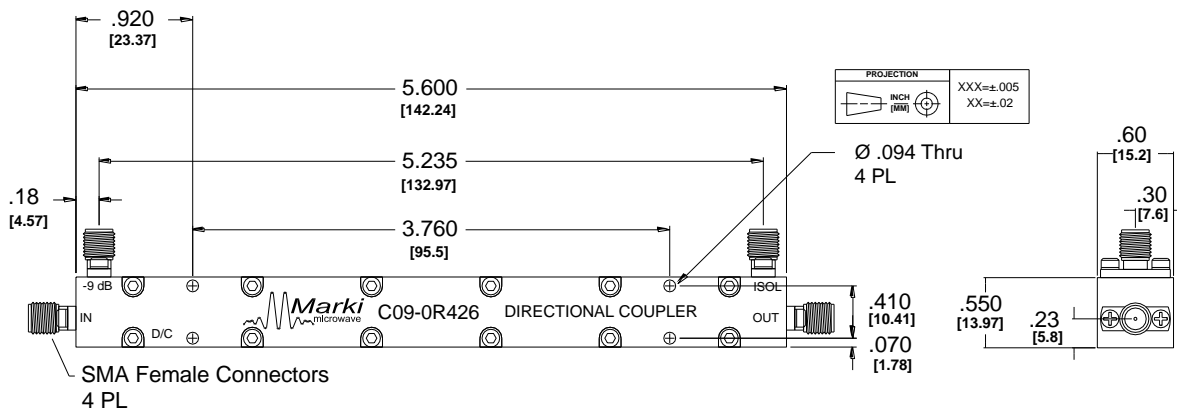


#### Electrical Specifications

Parameter <sup>1</sup>	Frequency Range	Min	Typ	Max
Mean Coupling (dB)	450 MHz -26.5 GHz		9	
Amplitude Flatness (dB) <sup>2</sup>			±0.7	±1.4
Direct Line Insertion Loss (dB)	DC -26.5 GHz			2.4
VSWR	450 MHz – 18 GHz		1.15	1.45
	18 GHz - 26.5 GHz		1.3	1.7
Directivity (dB)	450 MHz – 18 GHz	15	20	
	18 GHz - 26.5 GHz	12	16	
Weight (g)			90	

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

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



# DIRECTIONAL COUPLER

**C09-0R426**

Page 2

## Typical Performance

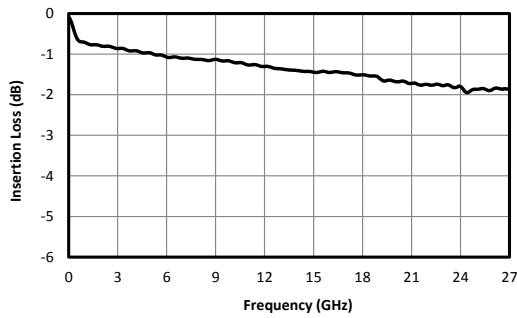


Fig. 1. Direct line insertion loss.

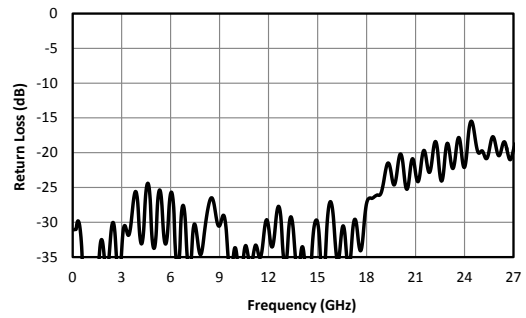


Fig. 2. Typical port return loss.

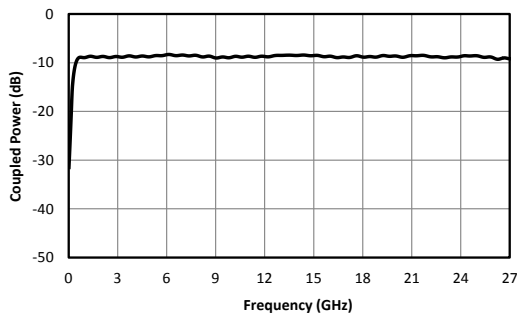


Fig. 3. Coupled port power.

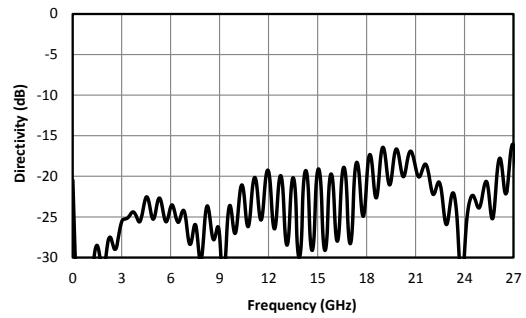


Fig. 4. Typical directivity.



## DIRECTIONAL COUPLER

**C09-0R426**

Page 3

Model Number	Description
C09-0R426	0.45-26.5 GHz, 9 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.

### Revision History

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

*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.*