

LEAD-FREE / RoHS-COMPLIANT

DIRECTIONAL COUPLER

C20-0R612

The C20-0R612 is a broadband 0.6-12 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

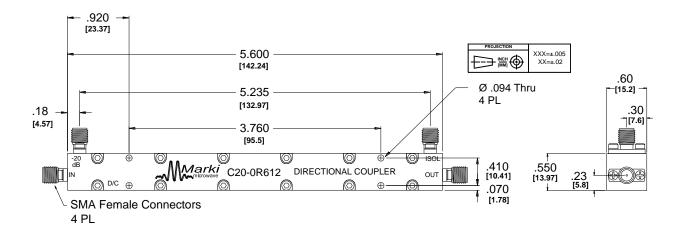


Electrical Specifications

Parameter ¹	Frequency Range (GHz)	Min	Тур	Max
Mean Coupling (dB)	0.6.13		20	
Amplitude Flatness (dB) ²	0.6-12		±0.6	±1.2
Direct Line Insertion Loss (dB)	DC-12			1.5
VSWR	0.6-12		1.2	1.35
Directivity (dB)		15	22	
Weight (g)			90	

 $^{^1\}text{Specifications}$ guaranteed when operated in a 50Ω system.

²Deviation from average coupling.





DIRECTIONAL COUPLER

C20-0R612

Page 2

Typical Performance

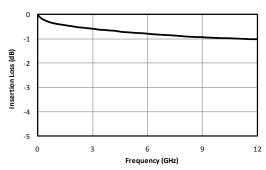


Fig. 1. Direct line insertion loss.

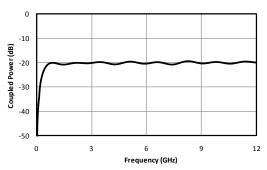


Fig. 3. Coupled port power.

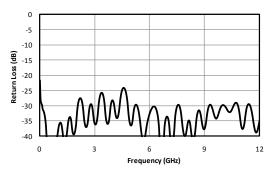


Fig. 2. Typical port return loss.

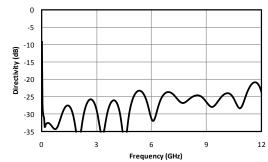


Fig. 4. Typical directivity.



DIRECTIONAL COUPLER

C20-0R612

Page 3

Model Number	Description		
C20-0R612	0.6-12 GHz 20 dB Directional Coupler with SMA connectors ¹ , LEAD-FREE/RoHS COMPLIANT		

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

Revision History

Revision code	Revision Date	Comment
В	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.