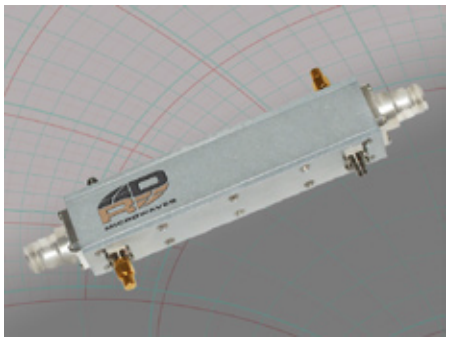
Dual Directional Couplers

C2-A37, 30dB Dual Directional Coupler PIM optimized

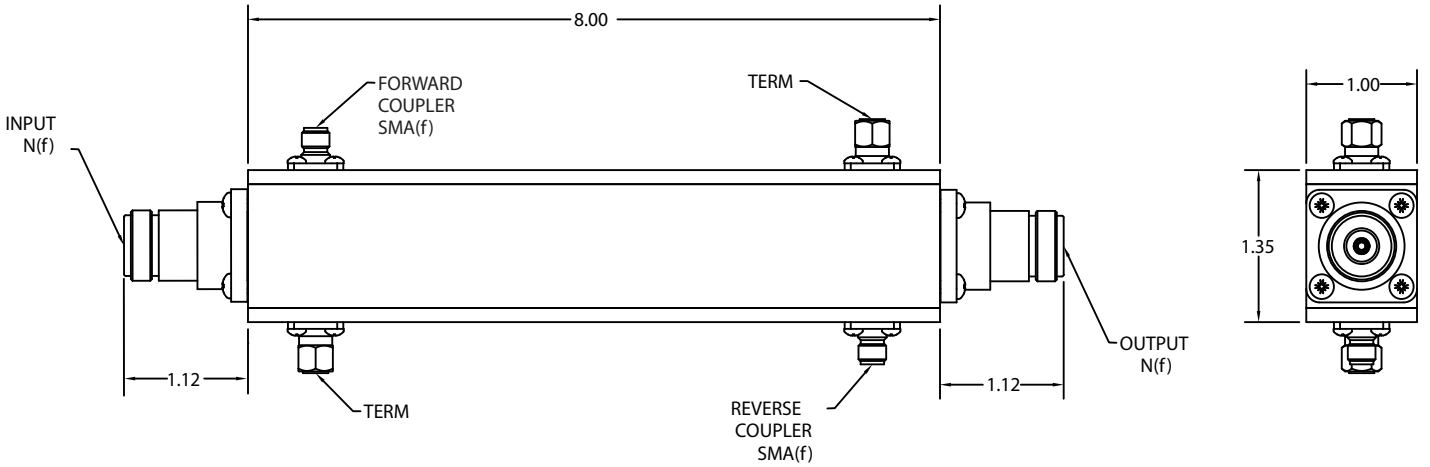
Model	C2-A37	
Frequency range	108 - 118 MHz	
Coupling Accuracy	30 ± 0.5 dB	
Coupling Flatness	0.8 dB peak to peak	
	TYP	MIN
Directivity	50 dB	35 dB
	TYP	MAX
Insertion Loss	0.12 dB	0.20 dB
VSWR and Return Loss	TYP	MAX
Input and Output Coupled Port	1.02 (40 dB)	1.07 (30 dB)
Impedance	50 Ω	
Intermodulation IM3 (2 x 43 dBm carrier)	155 dBc	
Max. Power	500 W Avg, 5 KW Peak	
Termination Max. Power	3 W Avg	
Connectors	TYPE N Main Line, female/female SMA(f) Coupled Ports	
Material: Housing Inner Conductor & Connectors	 Aluminum, Conversion Coating Brass, Silver Plated	
DC continuity Input ↔Output Input ↔ Coupled Port	 RF and DC RF only	
Weight approx	1.2 kg (2.64 lb)	



The Model C2-A37 dual directional coupler covers applications in the 108 - 118 MHz frequency range with high power, low insertion loss, very high directivity, and excellent PIM performance that is inherent with airline design and construction over the full 108 -118 MHz frequency. This single section design dual directional coupler is supplied with two (2) terminations on the coupled ports. The unit is supplied with Type N connectors on the main-line and SMA on the coupled ports. The design may easily be modified to 7-16 DIN type connectors and other coupling values can be provided.

Made in USA.

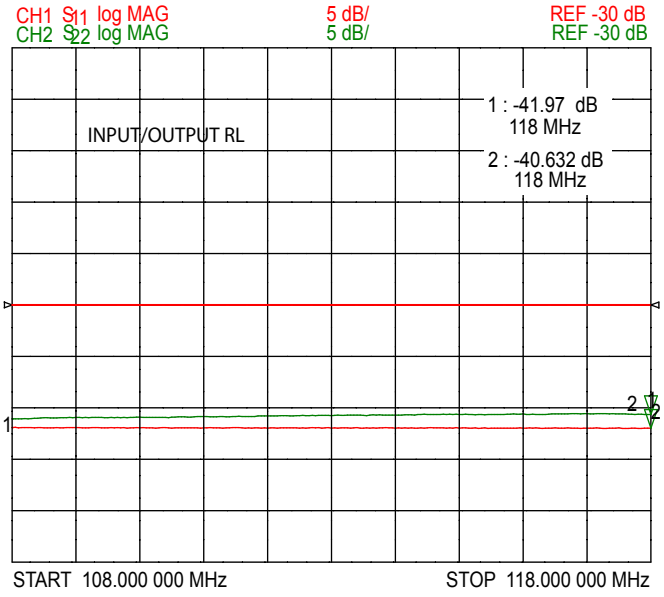
- 500 W average power
- Low VSWR and Loss
- High reliability, Low PIM
- ROHS Compliant

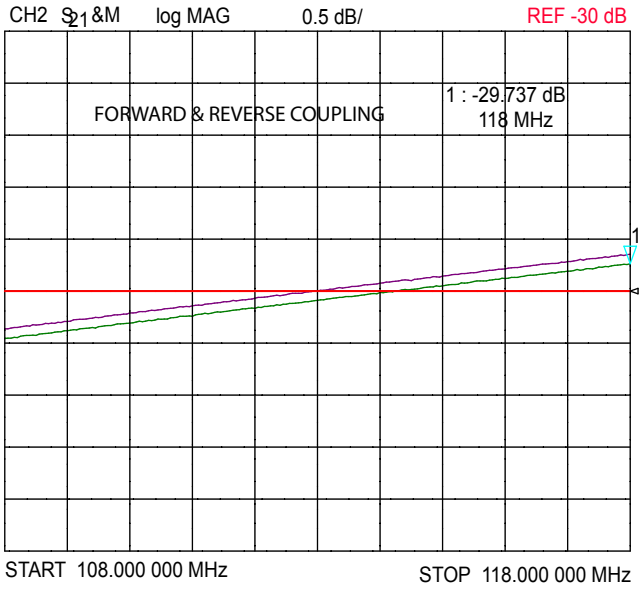


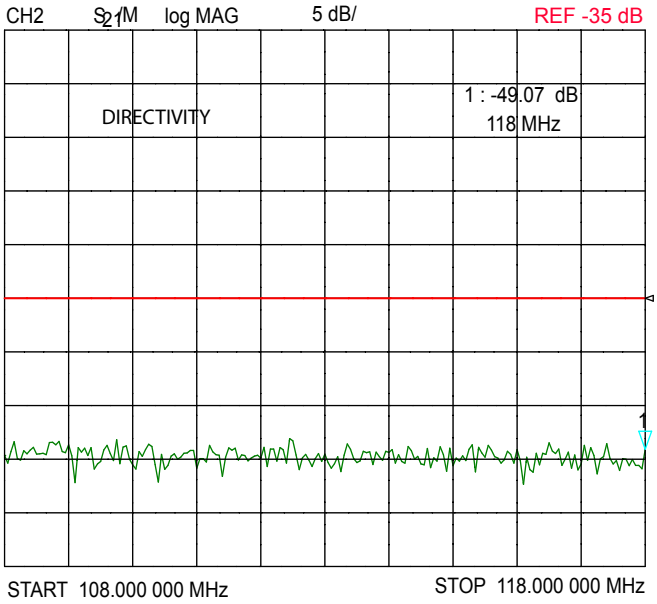
R&D Microwaves LLC, 301 Rockaway Valley Road, Boonton, NJ 07005 USA
Tel. 908.212.1696 www.rdmicrowaves.com
email: sales@rdmicrowaves.com

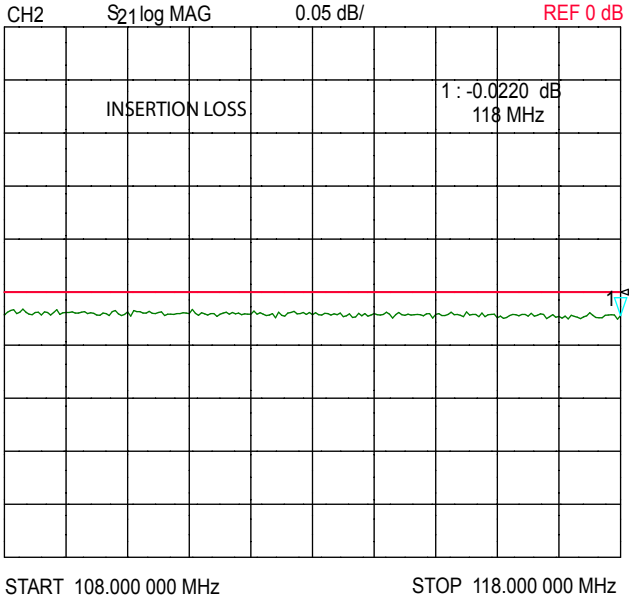
Rev 1.4
9/14/2026

Test Data C2-A37, 30dB









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