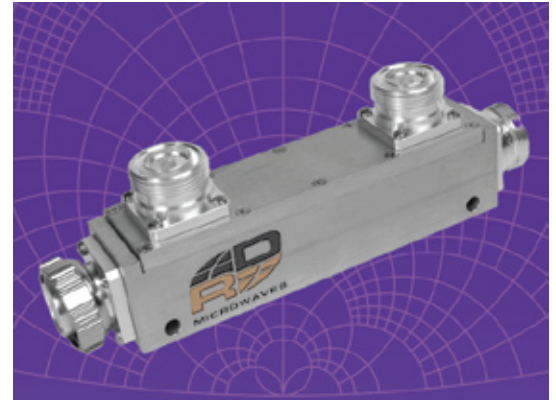


# Single Directional Coupler

**Model C1-A01, 4.7dB**

Two section, single directional airline (slabline) coupler

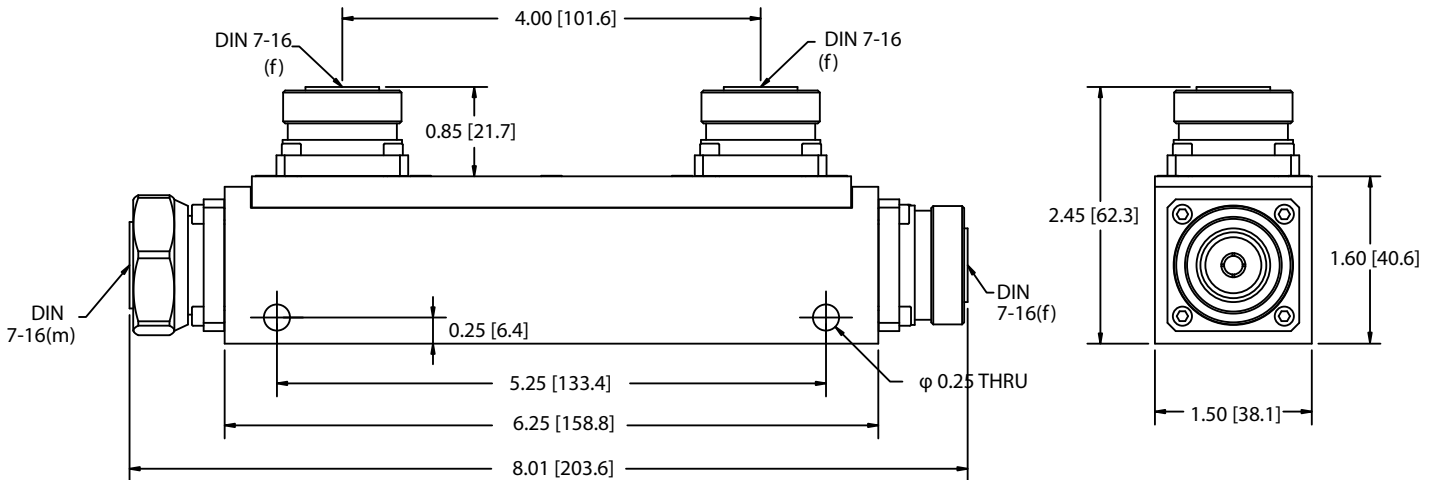
Model	C1-A01	
Frequency range	800 - 2200 MHz	
Coupling	4.7 dB $\pm$ 0.5 dB	
VSWR	In/Out	Coupled
	1.3	1.3
Power Rating	500W Avg. peak 3k	
Directivity	20 dB Min.	
Impedance	50 $\Omega$	
Intermodulation PIM	< - 140 dBc	
Connectors	7-16 DIN male/female female, flange with o-ring	
Material:		
Housing	Passivated Aluminium	
Inner Conductor & Connectors	Brass, Silver Plated	
Profile cross-section	38.1 x 38.1 mm (1.5"x1.5")	
Weight approx	0.8 kg (1.8 lb)	



R&D Microwave's airline directional coupler has been designed for indoor application covering 800 to 2200 MHz. This coupler samples a defined fraction of signal with minimal reflection or loss. The extremely wide frequency range allows use with multiband antennas, leaky cable systems and wireless base stations. Low loss, combined with minimal solder joints, minimizes dissipative loss and enhances reliability.

- Flat response 800 to 2200 MHz
- Minimal RF Insertion Loss
- Rugged, High Reliability
- Low PIM
- 500W Average Main Line Power
- ROHS Compliant

**Made in USA.**

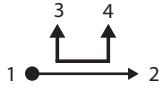


DIMENSIONS: in [mm]  
TOLERANCE: 0.03 [0.8]

R&D Microwave LLC, 11 Melanie Lane #12, East Hanover, NJ 07936 USA

Tel. 908.212.1696    www.rdmicrowaves.com

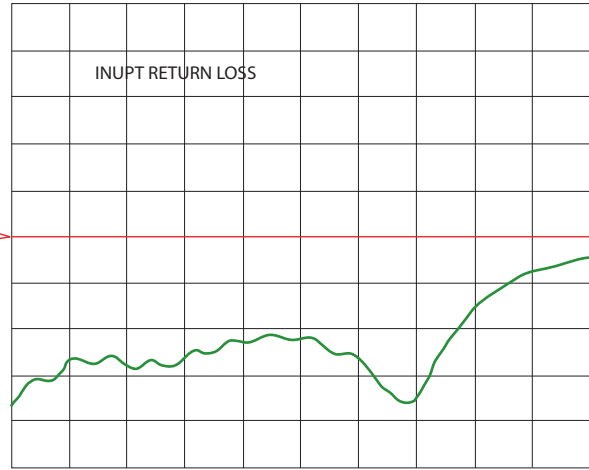
email: sales@rdmicrowaves.com



# Single Directional Coupler

Test Data C1-A01, 4.7 dB

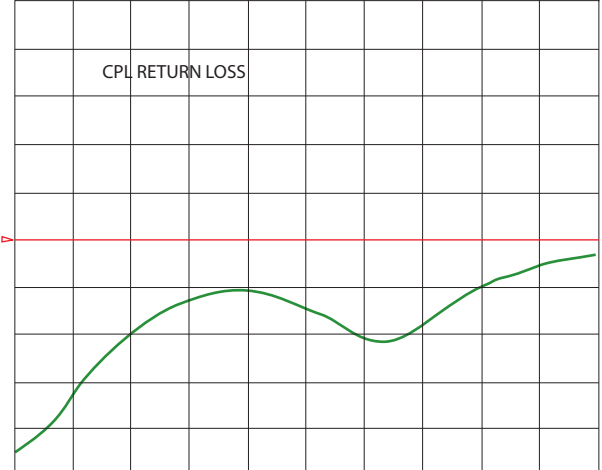
CH1 S11 log MAG 5 dB/ Ref -20dB



START 800 MHz

STOP 2.2 GHz

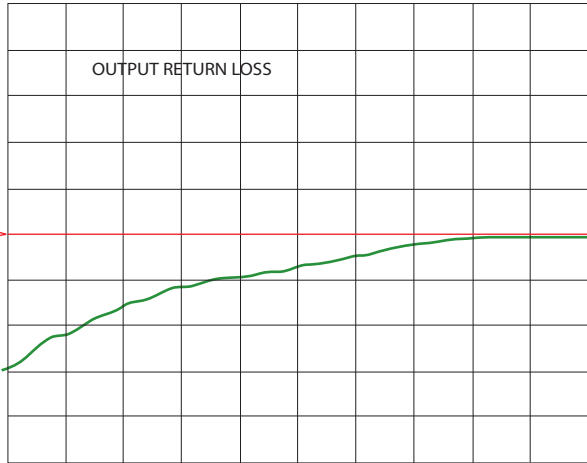
CH1 S33 log MAG 5 dB/ Ref -17.8 dB



START 800 MHz

STOP 2.2 GHz

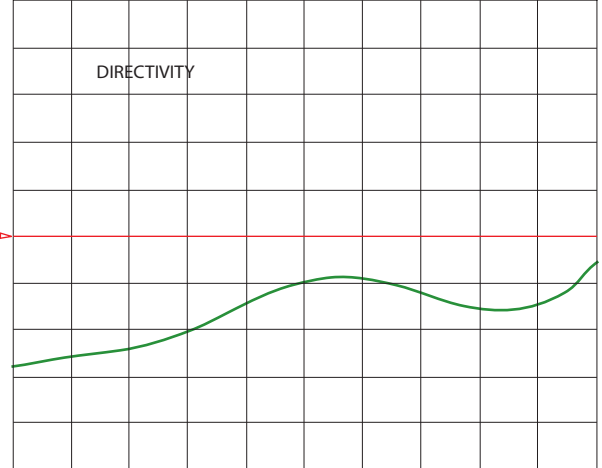
CH1 S22 log MAG 5 dB/ Ref -17.8 dB



START 800 MHz

STOP 2.2 GHz

CH2 S32/S31 log MAG 2 dB/ Ref -20 dB



START 800 MHz

STOP 2.2 GHz

CH2 S31 log MAG 0.5 dB/ Ref -4.7dB

