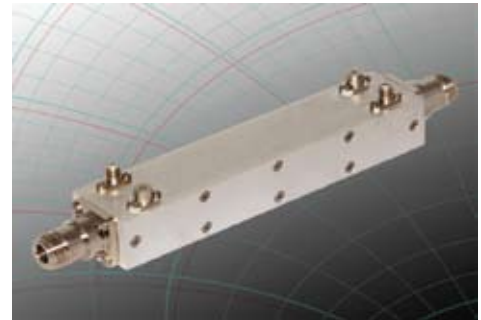


Dual Directional Couplers

C2-A22, 30dB Dual Directional Coupler PIM optimized
Three (3) section, dual directional airline (slabline) coupler.

Model	C2-A22		
Frequency range	30 - 3000 MHz		
	30-380 MHz	380-500 MHz	500-3000 MHz
Coupling Value	30-55 dB Nom.	30 +3/-2 dB	30 ± 2 dB
Coupling Flatness	N/A	± 1	± 1
Directivity Frequency dependent	33 - 18 dB minimum		
	TYP	MAX	
Insertion Loss	0.12 dB	0.20 dB	
VSWR and (Return Loss) Input and Output Coupled Port	TYP	MIN	
	1.07 (30 dB) 1.15 (23 dB)	1.25 (19.8 dB) 1.5 (14 dB)	
Impedance	50 Ω		
Intermodulation IM3 (2 x 43 dBm carrier)	155 dBc		
Max. Power	500 W Avg, 3KW Peak		
Termination Max. Power	3 W Avg		
Connectors	TYPE N Main Line, 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-A22 dual directional coupler covers applications in the 30-3000MHz 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 30-3000MHz frequency. The unit is designed for maximum coupling flatness over the 500-3000MHz range and the coupling will vary smoothly upward from 30 to 50dB between 380 and 30 MHz. This three (3) 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 mainline 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.

Patent U.S. 7,429,903

Made in USA.

