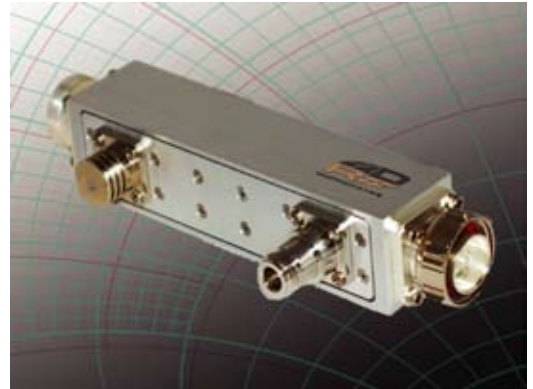


## Model C1-A51, Single Directional Coupler PIM optimized

Model	C1-A51
Frequency range	300 - 400 MHz
Coupling Value @ 1080 MHz	30 dB +/- 0.75 dB
Directivity	30 dB min.
Insertion Loss @ 360 MHz	0.07 dB max.
VSWR and (Return Loss)	
Input and Output	1.05 (25 dB)
Coupled Port @ 360 MHz	1.10 (17.7 dB)
Impedance	50 Ω
Intermodulation IM3 (2 x 43 dBm carrier)	165 dBc
Max. Power	2000 W Avg, 10kW Peak
Termination Max. Power	3 W Avg
Connectors	7-16 DIN male/female and N female, flange with O-ring
Material:	
Housing	Aluminum, Conversion Coating
Inner Conductor & Connectors	Brass, Silver Plated
DC continuity	
Input ↔ Output	RF and DC
Input ↔ Coupled Port	RF only
Weight approx	1.2 kg (2.64 lb)



The Model C1-A51 Directional Coupler is designed for the lowest possible insertion loss and PIM performance. One of the design features of the unit to achieve this, is the use of a one piece inner conductor, end to end through the male and female DIN connectors. The conductor is suspended in air for low dielectric loss. The elimination of any connections or discontinuities provides the lowest PIM and loss possible.

The unit will operate at 2kW CW at 360 MHz, and couple off the third harmonic at 1080MHz, 30 dB down.

**Made in USA.**

