

Directional Couplers Cellular Band



MDI's MDC series directional couplers are designed specifically to provide both low cost and high performance for cellular applications. These models offer a versatile range of coupling values and power capabilities. Standard connectors are N, SMA or 7/16.

Standard models are also available with coupling values up to 70 dB. Contact the factory for applications requiring nonstandard directivity or power handling capability. All models are available in either internally or externally terminated configurations.

SPECIFICATIONS

MODELS

	MDC-6	MDC-7.5	MDC-10	MDC-20	MDC-30	MDC-40	MDC-50
Frequency (MHz)**	860-904	860-904	860-904	860-904	860-904	860-904	860-904
Impedance (Ohms)	50	50	50	50	50	50	50
Coupling (dB)***	6.0	7.5	10.0	20.0	30.0	40.0	50.0
Accuracy (dB)	-0.2	-0.2	-0.3	-0.5	-0.6	-1.0	-1.0
Flatness (dB)	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
Input power (Watts)	500*	500*	500	1,000	1,000	1,000	1,000
VSWR (mainline)	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1	1.2:1
Directivity (dB-typical)	20-25	20-25	20-25	20-25	20-25	20-25	20-25

*Input power may be increased to 1000 watts with external termination.

**Canadian cellular bands of 800-900 MHz also available.

***Coupling values are available in any value from 6 through 60dB.

