

MICROLAB/FXR Directional Coupler

CK-30D series

Ouarter Wave Air-line Coupler

806-960/1710-2200 MHz

- ♦ 6, 10, 15, 20 & 30 dB Coupling Values
- **♦** High Directivity/Isolation
- **♦ Low VSWR and Loss**
- Dual Band Cellular and PCS/UMTS
- **♦ 200 Watt Average Power Rating**
- High Reliability, Low PIM
- **♦ RoHS Compliant**
- ♦ 7-16 mm DIN connectors standard



Microlab/FXR CK-30D series, Directional Couplers, is a quarter wave, air-line design for indoor and outdoor applications covering all cellular bands to 2200 MHz. Units couple off a defined fraction of signal with minimal reflections or loss.

The wide frequency range allows use with multiband antennas, leaky cable systems and in wireless base stations. With minimal solder joints and an air dielectric, the dissipative loss has been minimized and reliability enhanced. Optional units with 4 port configuration, to IP65 and with combinations of DIN and N, male and female connectors.

See also DK series, Unequal Power Splitters, for different benefits. (12/06)

Frequency Ranges: 806 to 960 MHz and 1710 to 2200 MHz VSWR: 1.20:1 max., all ports Dissipative Loss: 0.1 dB max. (Main Line) Power Handling: 200 W avg., 3 kW peak* Directivity: 25 dB min., < 1990 MHz 23 dB min., > 1990 MHz Impedance: 50Ω nominal <-140 dBc max. with 2 Intermodulation, PIM: tones of +43 dBm. Lower

Environment: levels to special order.

Environment: IP64, -35°C to +75°C

Attachment Bracket: 1 supplied (2 on request)

Conversion/Silver or triplate

*Power may also be limited by feeding into poorly matched loads overloading the internal 2W termination.

Model Number 3 port 4 port		Coupling Loss	Coupled Loss	Coupling, (ref. Input) Actual Coupling, dB, in range			Weight oz	Dimensions in inches (mm)			
		nom.		806 - 960	1710 - 1990	1990 - 2200	(g)	Α	В	С	D
CK-36D CK-37D	CK-36LD CK-37LD		1.26 dB 0.454 dB	6.8 ± 0.8 10.8 ± 0.8	5.4 ± 0.6 9.4 ± 0.7	6.4 ± 0.8 10.4 ± 0.8	12 (330)	3.57 (90.7)	3.87 (98.3)	5.62 (143)	0.85 (21.6)
CK-35D CK-38D CK-39D	CK-35LD CK-38LD CK-39LD	20 dB	0.140 dB 0.045 dB 0.004 dB	15.5 ± 0.9 20.8 ± 0.9 30.8 ± 1.0	14.0 ± 0.8 19.4 ± 0.8 29.4 ± 1.0	15.1 ± 1.0 20.4 ± 1.0 30.4 ± 1.3	12 (330)	3.79 (96.3)	4.09 (104)	5.83 (148)	0.73 (18.5)

