



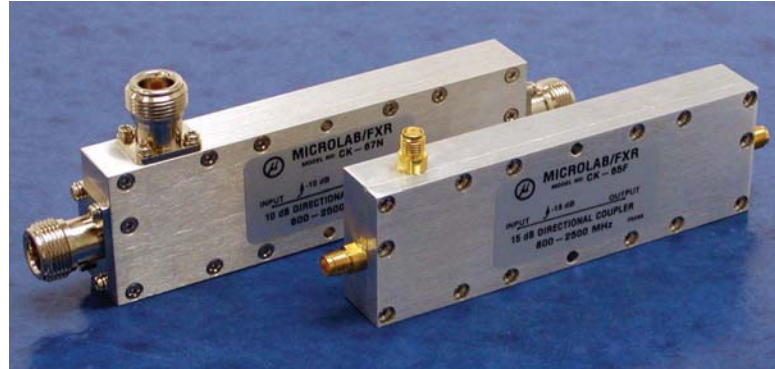
MICROLAB/FXR Directional Coupler

CK-60 series

Dual Section, Wideband, Air-line Coupler
800 - 2500 MHz, N or SMA connectors

\$ Saver Product Line

- ◆ 5 to 30 dB Coupling Values
- ◆ Good Directivity
- ◆ Low VSWR and Loss
- ◆ Wideband Cellular to WiFi
- ◆ 100 Watt Average Power
- ◆ Effective as Tappers for DAS In-Building Distributed Antenna Systems



Microlab/FXR CK-60 series of SMA Directional Couplers, is a two section, quarter wave, air-line design for indoor applications covering all wireless bands to 2,500 MHz. Units couple off a defined fraction of signal from 5 to 30 dB with minimal reflections or loss.

The wide frequency range allows use with multiband antennas and 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.

These Directional Couplers may also be used as Unequal Dividers or Tappers, which are usually specified by the power ratio between outputs. For convenience these are shown in the table. (8/05)

Model No.	N conn	SMA	Coupling nom.	Flatness dB	Coupled Loss, dB	*Power Ratio/dB between Outputs
CK-61N	CK-61F	5 dB	± 0.6	1.65	7:3	3.35 dB
CK-66N	CK-66F	6 dB	± 0.8	1.25	3:1	4.75 dB
CK-62N	CK-62F	7 dB	± 0.8	0.97	4:1	6 dB
CK-63N	CK-63F	8.5 dB	± 0.8	0.67	6:1	7.8 dB
CK-67N	CK-67F	10 dB	± 1.0	0.45	9:1	9.55 dB
CK-64N	CK-64F	13.2 dB	± 1.0	0.21	20:1	13 dB
CK-65N	CK-65F	15 dB	± 1.0	0.140	30:1	14.7 dB
CK-68N	CK-68F	20 dB	± 1.0	0.045	100:1	19.9 dB
CK-69N	CK-69F	30 dB	± 1.0	0.004	1000:1	30 dB

*Power Ratio/dB between outputs is approximate

- Frequency Ranges: 800 to 2,500 MHz
- VSWR: 1.25:1 max., all ports
- Directivity: 18 dB minimum
- Dissipative Loss: <0.45 dB (Main Line) excludes Coupled Loss
- Power Handling: 100 W avg.*
- Impedance: 50Ω nominal
- Environment: -25° - +55°C, Indoor
- Finish: Passivated aluminum
- Weight: N conn. 8.8 oz., 247 g nom.
- SMA 6.3 oz., 177 g nom.
- Connectors: N (f), nickel plating
- SMA (f), gold plating

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

