

\$ Saver Product Line

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



Microlab CK-60 series of N and 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. (8/08)

Frequency Range:	800 to 2,500 MHz
VSWR Coupler Values:	5, 6, 7dB 8.5 & above
Main line:	<1.3:1 <1.3:1
Coupled port:	<1.4:1 <1.3:1
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), triplate SMA (f), gold plating

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

Model No.	Coupling nom.	Flatness dB	Coupled Loss, dB	*Power Ratio/dB between Outputs
CK-61N CK-61F	5 dB	± 0.8	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

