

- ◆ Ultra wide-band, taper design
- ◆ **Models for Outdoor Environment**
- ◆ Flat response 698 to 2700 MHz
- ◆ 6, 10, 15, 20 & 30 dB Values
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability, RoHS
- ◆ Low Passive Intermodulation (PIM)
- ◆ 200 Watt Average Main Line Power
- ◆ 7-16 mm DIN or N Connectors



The CK-10 series of Directional Couplers is a tapered stripline design for indoor applications covering from 698 to 2,700 MHz (close to specification from 500 to 3,000 MHz, usable to 3,600 MHz). Units couple off a defined fraction of signal with minimal reflections or loss. Each model is available as a 4 port coupler.

The extremely wide frequency range allows use with multi-band antennas and leaky cable systems and wireless base stations. With minimal solder joints and a low loss dielectric, the dissipative loss has been minimized and reliability enhanced.

See also Microlab DK and DN series, Unequal Power Splitters/Tappers, which offer alternate benefits for some in-building applications. For outdoor environments add suffix 'P' to Model No. (e.g. **CK-16NP**). (01/12)

Frequency: 698 to 2,700 MHz with usable performance to 3,600 MHz
 VSWR, all ports: 1.20:1 max.
 Intermod., PIM: <-140 dBc, 2 tones at +43 dBm
 Power Rating: 200 W avg., 1.5 kW pk*
 Directivity: 20 dB min.
 Impedance: 50Ω nominal
 Environment: 0°C to +50°C, below 0°C coupling is maintained but directivity falls

Housing Finish:
Indoor/IP64: Standard model, Passivated Al.
Outdoor/IP67: Adds paint (**Add P to Model No.**)
 Connectors: Triplate

*Power may be limited by feeding into poorly matched loads overloading the termination.

7-16 mm DIN Models		N Models		Coupling nom.	Frequency Sensitivity	Coupled Loss	Insertion Loss, dB	Weight oz (kg)	
3 Port	4 Port	3 Port	4 Port					DIN	N
CK-15D	CK-15LD	CK-15N	CK-15LN	15 dB	+1.2/-0.8 dB	0.14 dB	<0.20	26 (0.75)	24 (0.67)
CK-16D	CK-16LD	CK-16N	CK-16LN	6 dB	±0.75 dB	1.26 dB	<0.25	26 (0.75)	24 (0.67)
CK-17D	CK-17LD	CK-17N	CK-17LN	10 dB	±1.0 dB	0.45 dB	<0.20	26 (0.75)	24 (0.67)
CK-18D	CK-18LD	CK-18N	CK-18LN	20 dB	±1.0 dB	0.04 dB	<0.20	26 (0.75)	24 (0.67)
CK-19D	CK-19LD	CK-19N	CK-19LN	30 dB	±1.0 dB	0.01 dB	<0.20	26 (0.75)	24 (0.67)

Add 'P' to Model Number for Outdoor Finish

