

- ◆ Ultra wide-band, taper design
- ◆ Flat response 700 to 2700 MHz
- ◆ 6, 10, 20 & 30 dB Values
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability
- ◆ Low Passive Intermodulation (PIM)
- ◆ RoHS compliant
- ◆ 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 700 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 DK and DN series, Unequal Power Splitters/Tappers, which offer alternate benefits for some in-building applications. (7/09)

Frequency Range:	700 to 2,700 MHz with usable performance to 3,600 MHz
VSWR, all ports:	1.20:1 max.
Power Rating:	200 W avg., 1.5 kW pk*
Directivity:	20 dB min.
Impedance:	50Ω nominal
Intermod., PIM:	<-140 dBc, 2 x +43 dBm
Environment:	0°C to +50°C, IP65 below 0°C coupling is maintained but directivity falls
Finish: Body:	Passivated Aluminum
Connectors:	N or 7-16 mm (f), 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-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)

