

- ◆ Ultra wide-band, taper design
- ◆ **Models for Outdoor Environment**
- ◆ 6, 10, 15, 20 & 30 dB Values
- ◆ Minimal RF Insertion Loss
- ◆ Low Passive Intermodulation (PIM)
- ◆ 200 Watt Average Main Line Power
- ◆ "Mini-DIN", 7-16 DIN, or N Connectors
- ◆ Includes Mounting Bracket (Not shown)



The CK-10 series of Directional Couplers is a tapered strip-line design covering from 698 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 multiband antennas, 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.

Four port directional couplers are available with LC, LD, or LN suffix, (e.g. **CK-16LN**). For outdoor environments add suffix 'P' to Model No. (e.g. **CK-16NP**). (11/14)

Frequency:	698-3600 MHz
VSWR	1.20:1 max., 698-2500 MHz 1.25:1 max., 2500-3300 MHz 1.40:1 max., 3300-3600 MHz
Intermod., PIM:	-158 dBc typ, -155 dBc max. (2 tones at +43 dBm)
Power Rating:	200 W avg., 1.5 kW pk*
Directivity:	20 dB min., 698-2500 MHz 18 dB min., 2500-3300 MHz 16 dB min., 3300-3600 MHz
Impedance:	50Ω nominal
Environment:	0°C to +50°C, below 0°C coupling is maintained but directivity degrades
Housing Finish:	
<b>Indoor</b> /IP64:	Standard model, Passivated Al.
<b>Outdoor</b> /IP67:	Adds paint ( <b>Add P to Model No.</b> )
Connectors:	Triplate
Weight:	7-16 DIN 26 oz, 0.75 kg, nominal 4.1-9.5 & N-type 24 oz, 0.67 kg, nominal
*Power may be limited by feeding into poorly matched loads overloading the termination.	

3 Port Model Numbers*			Coupling nom.	Frequency Sensitivity		Coupled Loss	Dissipative Loss, dB
4.1-9.5 DIN <sup>†</sup>	7-16 DIN	N-type		698-2500 MHz	2500-3600 MHz		
<b>CK-15C</b>	<b>CK-15D</b>	<b>CK-15N</b>	15 dB	+1.2/-0.8 dB	+1.2/-0.8 dB	0.14 dB	<0.30
<b>CK-16C</b>	<b>CK-16D</b>	<b>CK-16N</b>	6 dB	±0.75 dB	±0.9 dB	1.26 dB	<0.30
<b>CK-17C</b>	<b>CK-17D</b>	<b>CK-17N</b>	10 dB	±1.0 dB	±1.0 dB	0.45 dB	<0.30
<b>CK-18C</b>	<b>CK-18D</b>	<b>CK-18N</b>	20 dB	±1.0 dB	±1.0 dB	0.04 dB	<0.30
<b>CK-19C</b>	<b>CK-19D</b>	<b>CK-19N</b>	30 dB	±1.0 dB	±1.2 dB	0.01 dB	<0.30

\*4 Port models are available with LC, LD, or LN suffix. Add 'P' to Model Number for Outdoor Finish.  
<sup>†</sup>"Mini-DIN" Connector

