

Proposal to Telefonica

- ◆ Ultra wide-band, taper design
- ◆ Flat response 698 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
- ◆ N and 7-16 Connectors



Directional Coupler
N version

These Couplers are based on the Microlab CK-10 series of Directional Couplers. Each is a tapered stripline design for outdoor applications covering from 698 to 2,700 MHz. Units couple off a defined fraction of signal with minimal reflections or loss.

The extremely wide frequency range allows use with multiband 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. Each is sealed to meet IP 65 performance. (11/11)

Frequency:	698 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 +55°C, IP67, but from 0°C to -33°C directivity falls by up to 5dB
Finish: Body:	Passivated Aluminum
Connectors:	N (f), triplate

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

Model No N conn	Model No. 7-16 DIN	Coupling nom.	Coupling Change 0°C to -33°C	Frequency Sensitivity	Coupled Loss	Insertion Loss, dB	Weight oz (kg)
CK-E33	CK-E71	6 dB	-0.5 dB typ.	±0.75 dB	1.26 dB	<0.25	24 (0.67)
CK-E34	CK-E72	10 dB	-0.4 dB typ.	±1.0 dB	0.45 dB	<0.20	24 (0.67)
CK-E35	CK-E73	20 dB	-0.2 dB typ.	±1.0 dB	0.04 dB	<0.20	24 (0.67)
CK-E67	CK-E74	30 dB	-0.2 dB typ.	±1.0 dB	0.01 dB	<0.20	24 (0.67)

