



MICROLAB/FXR Directional Coupler

CK-70 series

Low Loss, Multi Section, Air-line Coupler
380 - 2700 MHz, N or 7-16 mm DIN

- ◆ 6, 10, 15 dB Coupling Values
- ◆ High Directivity/Isolation
- ◆ Low VSWR and Loss
- ◆ Tetra, Cellular and PCS/UMTS
- ◆ 200 Watt Average Power Rating
- ◆ High Reliability, Low PIM
- ◆ IP67, RoHS compliant
- ◆ N or 7-16 mm DIN connectors



Model CK-76N

The CK-70 series, Directional Couplers, is a multi-section quarter wave, air-line design for indoor applications covering all Tetra and cellular bands to 2700 MHz. Units couple off a defined fraction of signal with minimal reflections or loss.

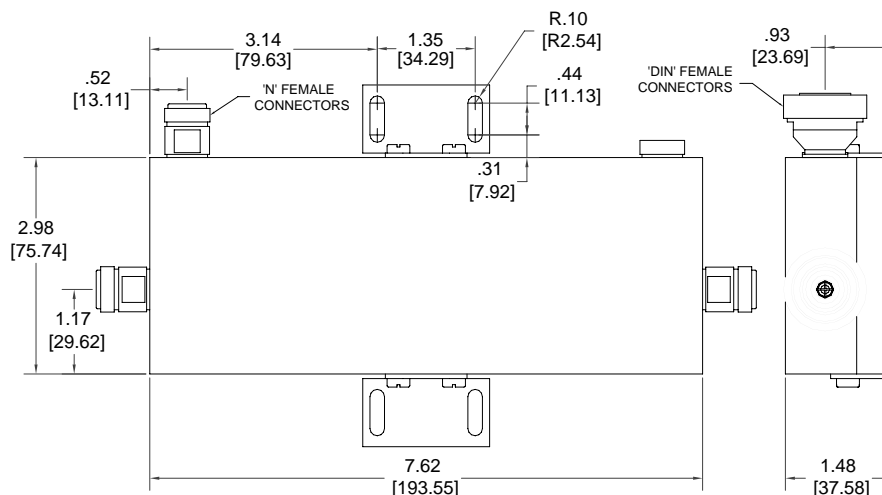
The wide frequency range allows use with multiband antennas and leaky cable systems and in wireless base stations. With no solder joints and an air dielectric, the dissipative loss has been minimized and reliability enhanced. Standard units are 3 port configuration, with N or 7-16 connectors. A 4 port configuration is available to order.

See also DK series, Unequal Power Splitters, in same range for different benefits. (9/07)

Frequency Ranges:	380 to 2700 MHz
VSWR, max:	1.20:1, all ports (1.30:1, > 2500 MHz)
Dissipative Loss:	0.1 dB max. (Main Line)
Power Handling:	200 W avg., 3 kW peak*
Directivity, min:	20dB, (18dB > 2500 MHz)
Impedance:	50Ω nominal
Intermodulation, PIM:	<-140 dBc with 2 tones of +43 dBm; <-150 dBc to order
Environment:	IP67, -35°C to +75°C
Finish:Housing:	Passivated aluminum
Connectors:	Triplate, female

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

Model No. N conn	Model No. 7-16 DIN	Coupling Value, nom.	Coupled Loss, dB	Dissipative Loss, dB	Coupling Flatness <500 MHz	Coupling Flatness >500 MHz	Weight, nom. oz (g)
CK-76N	CK-76D	6 dB	1.26	<0.1	± 1.0	± 1.0	24 (680)
CK-77N	CK-77D	10 dB	0.454	<0.1	± 1.5	± 1.0	24 (680)
CK-75N	CK-75D	15 dB	0.140	<0.1	± 1.5	± 1.0	24 (680)



ALL DIMENSIONAL TOLERANCES = ±.06" [1.5mm]
UNLESS OTHERWISE SPECIFIED

Microlab/FXR, A Wireless Telecom Group Company, 25 Eastmans Road, Parsippany, NJ 07054
Tel: (973) 386-9696 • sales@microlab.fxr.com • www.microlab.fxr.com • Fax: (973) 386-9191