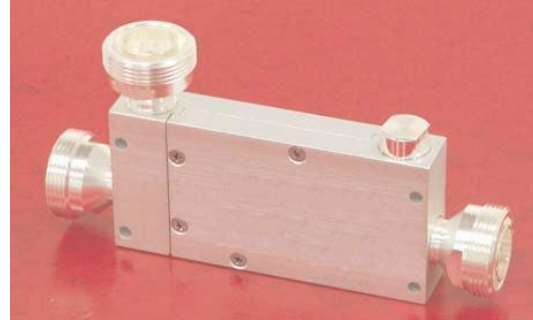


- 6, 10, 15, 20 & 30 dB Coupling Values
- High Directivity/Isolation
- Low VSWR and Loss
- Dual Band Cellular and PCS/UMTS
- 200 Watt Average Power
- High Reliability, Low PIM
- RoHS compliant
- 7-16 mm DIN connectors standard



dBD Communications KC-03N series, Directional Couplers, is a quarter wave, air-line design for applications covering all cellular bands to 2200 MHz. Units couple off a defined fraction of signal with minimal reflections or loss.

The wide frequency range allows use with multiband antennas, leaky cable systems and in wireless base stations.

With minimal solder joints and an air dielectric, the dissipative loss has been minimized and reliability enhanced. Optional units with 4 port configuration, to IP65 and with combinations of DIN and N, male and female connectors.

See also KD and ND series, Unequal Power Splitters and Tappers, for different benefits.

Frequency Ranges:	806 to 960 MHz and 1710 to 2200 MHz
VSWR:	1.20:1 max., all ports
Dissipative Loss:	0.1 dB max. (Main Line)
Power Handling:	200 W avg., 3 kW peak*
Directivity:	25 dB min., <1990 MHz 23 dB min., >1990 MHz
Impedance:	50Ω nominal
Intermodulation, PIM:	<-140 dBc max. with 2 tones of +43 dBm. Lower levels to order.
Environment:	IP64, -35°C to +75°C
Attachment Bracket:	1 supplied (2 on request)
Finish/Connectors:	Conversion/Silver or triplate

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

Model Number	3 port	4 port	Coupling dB nom.	Coupled Loss dB	Coupling, (ref. Input)			Weight oz (g)	Dimensions in inches (mm)			
					Actual Coupling, dB, in range				A	B	C	D
					806 - 960	1710 - 1990	1990 - 2200					
KC-63N	KC-63NL		6	1.26	6.8 ± 0.8	5.4 ± 0.6	6.4 ± 0.8	12	3.57	3.87	5.62	0.85
KC-73N	KC-73NL		10	0.454	10.8 ± 0.8	9.4 ± 0.7	10.4 ± 0.8	(330)	(90.7)	(98.3)	(143)	(21.6)
KC-53N	KC-53NL		15	0.140	15.5 ± 0.9	14.0 ± 0.8	15.1 ± 1.0	12	3.79	4.09	5.83	0.73
KC-83N	KC-83NL		20	0.045	20.8 ± 0.9	19.4 ± 0.8	20.4 ± 1.0	(330)	(96.3)	(104)	(148)	(18.5)
KC-93N	KC-93NL		30	0.004	30.8 ± 1.0	29.4 ± 1.0	30.4 ± 1.3					

