

## RB-NKW0

3dB Hybrid Coupler - CDMA800, GSM900, GSM1800 and UMTS, 800-2200MHz

### Features

- Permits combining of CDMA800, GSM900, GSM1800 and UMTS services.
- Low insertion loss of 0.3dB.
- High isolation between input ports of >27dB.
- Two combined output ports for split cable systems.

### Product Description

The Comba range of combiners provides compact and cost effective solutions for combining two different input frequency bands into one common output. These combiners are designed to provide low insertion loss and good intermodulation performance.

The RB-NKW0 is designed to combine CDMA800, GSM900, GSM1800 and UMTS services. This product is particularly suited for integrating two operators' services into an existing inbuilding antenna distribution system, thereby minimizing cost and increasing speed of rollout.



### Technical Specifications

#### Electrical

Frequency Range - [MHz]	800 -- 2200
Insertion Loss - [dB]	≤ 0.3
Degree of Coupling (nominal) - [dB]	3
3 <sup>rd</sup> Order Intermodulation - [dBc]	≤ -130
Isolation between Input Ports - [dB]	≥ 27
Pass Band Ripple - [dB]	± 0.25
Average Input Power Rating - [W]	120
VSWR	≤ 1.2:1
Nominal Impedance - [ohm]	50

#### Mechanical

Dimension LxWxH - [mm]	123 x 76 x 20
Weight (approx.) - [kg]	0.5
Number of Output Ports	2
Number of Input Ports	2
Connector Type - Input	N-Female
Connector Type - Output	N-Female
Temperature Range - [°C]	-30 to +75
Operating Humidity - [%]	< 95
Environmental Class	IP65

Note: Both output ports are the combined output of the two input ports. If only one antenna is connected to either output port, a dummy load should be attached to the other output port.

