

3 dB Hybrid Coupler



- **Wide frequency band: 698 MHz to 2700 MHz**
- **2G/3G/4G/LTE Coverage**
- **Low passive intermodulation**
- **Low VSWR and insertion loss**
- **High isolation, indoor and outdoor**
- **Widely used for in-building solutions**

Ascent's 3dB Hybrid couplers designed to combine two wireless carriers to a single antenna feed or distribution cable.

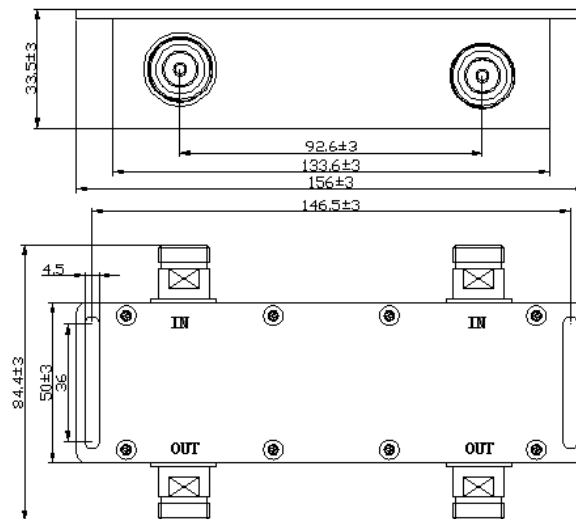
This requires the termination of one output port in 50 Ohm and results in a 3dB loss in each signal. In situations where two similar feeds are required, both outputs may be used eliminating the need for a termination and the 3dB loss.

Ascent's A-Hybrid-2x2-3dB is a 3dB hybrid coupler with two inputs and two outputs. It operates on a wide frequency band between 698 MHz and 2700 MHz. It features low passive intermodulation, low VSWR, and low insertion loss. It is suitable for 2G/3G/4G/LTE coverage, and has high isolation both indoors and outdoors.

Key Features

- Wide frequency band: 698 MHz to 2700 MHz
- 2G/3G/4G/LTE Coverage
- Low passive intermodulation
- Low VSWR and insertion loss
- High isolation, indoor and outdoor
- Widely used for in-building solutions

Outline Diagram



Specifications

Item	Description
Frequency	698 MHz to 2700 MHz
Coupling	3.1 dB \pm 0.5 dB
Isolation	23 dB (min.)
VSWR	≤ 1.20
PIM3	≤ -150 dBc @ 2*43 dBm
Power	200 W (avg.)
Impedance	50 Ω
Connector	N-female
Color	Black
Weight	0.4 kg
Operating Temperature	-30 °C to +65 °C
IP Grade	IP67

Ordering Information

Product Name	Product Description
A-Hybrid-2x2-3dB	3 dB Hybrid Coupler 2 Input/2 Output 698 MHz to 2700 MHz

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