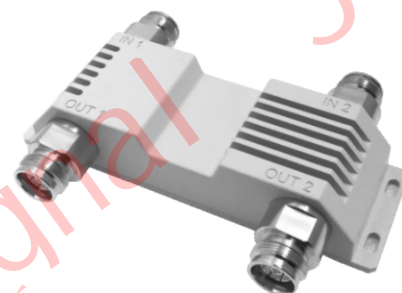


**Product Name : Hybrid Coupler HC0638-2I2O-OMH****Product Model : HC0638-2I2O-OMH**

The Hybrid Coupler is a high-performance passive RF device primarily used for signal combining, splitting, and power distribution in wireless communication systems. Featuring a high-quality cavity structure and precision manufacturing processes, it offers extremely low intermodulation distortion and excellent electrical performance. It is widely applied in base stations, repeaters, and In-Building distribution systems, supporting efficient transmission and distribution of multi-band and multi-system signals. The Hybrid Coupler excels in low intermodulation (PIM), low insertion loss, and high isolation, making it suitable for wireless network optimization, In-Building Distribution Systems (IBS), Base Transceiver Stations (BTS), Distributed Antenna Systems (DAS), and Antenna Feeder System (AFS).

**Product Description**

- ➔ Wide frequency band: 617-3800MHz
- ➔ High power capacity and isolation
- ➔ Low insertion loss
- ➔ Extremely low PIM
- ➔ Supporting indoor and outdoor applications

Specifications

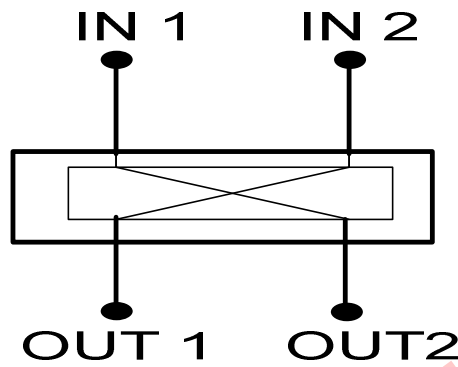
Frequency range	617-3800MHz
Insertion Loss	$\leq 3.1 \pm 0.6\text{dB}$
Isolation	$\geq 25\text{dB}$
VSWR	$\leq 1.25\text{ dB}$
Inter-modulation IM3	$\leq -160\text{ dBc}$ (with 2 x 43dBm)
RF Input Power, CW	$\leq 300\text{ W}$
Impedance	50Ω
RF Connector Type	4.3-10 F
Net Weight	$\leq 0.59\text{ kg}$
Dimensions (exclude connectors)	137 x 48.5 x 33.5 mm / 5.39x1.91x1.32 inch
Operating temperature	-25°C to +70°C
Relative humidity	0~95%
Color	Black or Custom
RoHS	Comply with RoHS
Ingress protection	IP67



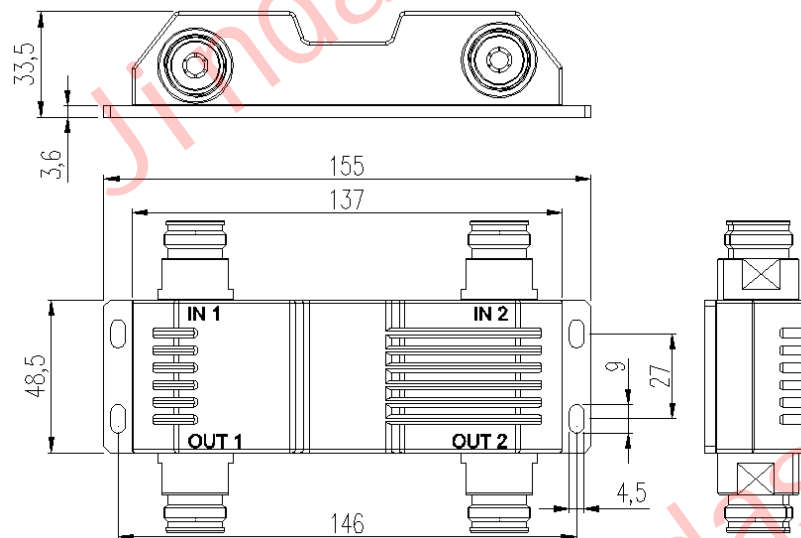
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Block Diagram



Outline Drawing



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