



JINDASIGNAL

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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	$\leq 3.1 \pm 0.8$ dB
Isolation	$\geq 23$ dB
VSWR	$\leq 1.3$ dB
Inter-modulation IM3	$\leq -160/-155/-150$ dBc REV (2x43 dBm)
RF Input Power, CW	300W
Impedance	50Ω
RF Connector Type	4.3-10 F
Net Weight	$\leq 0.44$ kg
Dimensions (exclude connectors)	154x50.6x37.5 mm / 6.06x1.99x1.48 inch
Operating temperature	-35°C to +70°C
Relative humidity	0~95%
Color	Black or Custom
RoHS	Comply with RoHS
Ingress protection	IP65



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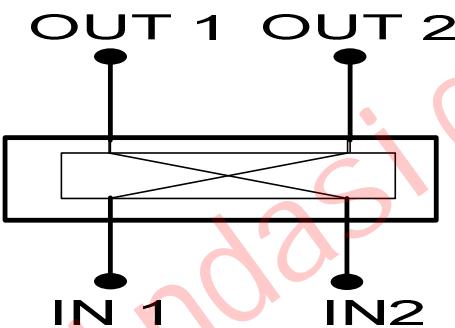
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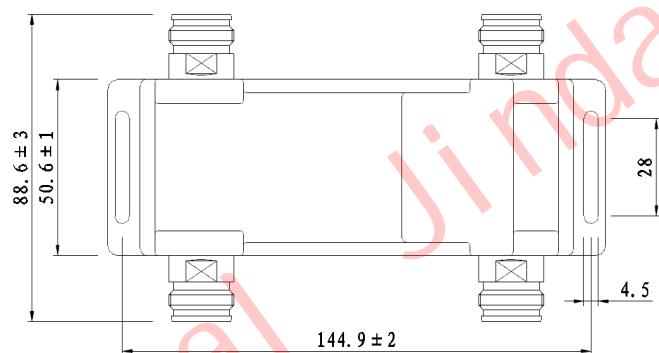
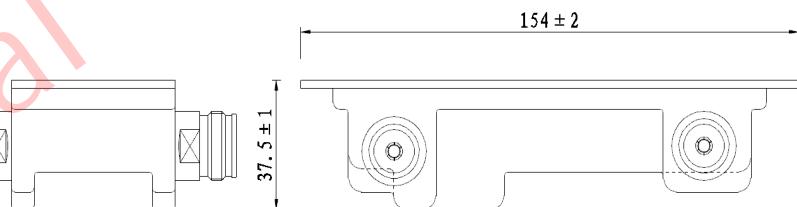
**Product Selection:**

Part No	Inter-modulation IM3
S11H270100-1	$\leq -160\text{dBc}$ REV (2x43 dBm)
S11H270100-2	$\leq -155\text{dBc}$ REV (2x43 dBm)
S11H270100-3	$\leq -150\text{dBc}$ REV (2x43 dBm)

**Block Diagram**



**Outline Drawing**



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