

**Product Name :** Hybrid Coupler HC0638-2I2O-ODH Wall-through**Product Model :** HC0638-2I2O-ODH Wall-through

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	≥ 23 dB
VSWR	≤ 1.3 dB
Inter-modulation IM3	$\leq -150/-155/-160$ dBc REV (2x43 dBm)
RF Input Power, CW	300W
Impedance	50 Ω
RF Connector Type	DIN-F Wall-through / N-F
Net Weight	≤ 0.59 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

Product Selection:

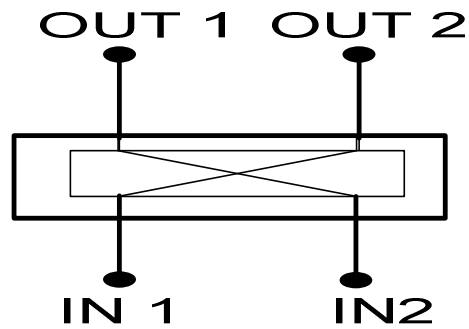
Part No	Inter-modulation IM3
S11H270104-1	≤ -160 dBc REV (2x43 dBm)
S11H270104-2	≤ -155 dBc REV (2x43 dBm)
S11H270104-3	≤ -150 dBc REV (2x43 dBm)



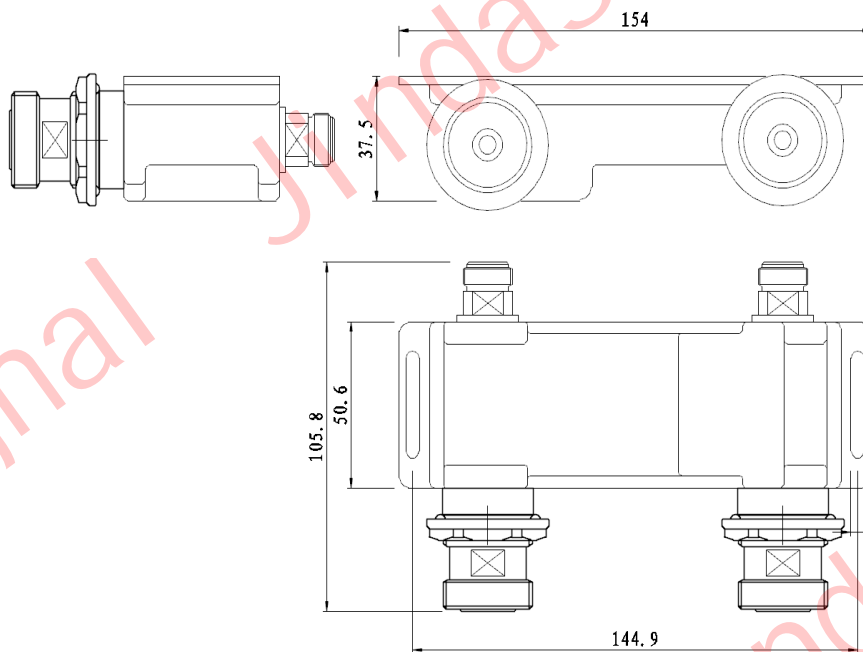
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Block Diagram



Outline Drawing



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