

**Product Name :** Hybrid Coupler ,4 in 4 out 698 - 4200MHz**Product Model :** HC0742-4I4O-ODH

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: 698 - 4200MHz
- ➔ High power capacity and isolation
- ➔ Low insertion loss
- ➔ Extremely low PIM
- ➔ Supporting indoor and outdoor applications

**Specifications**

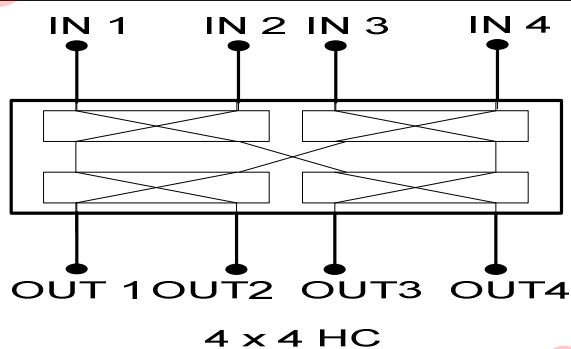
Frequency range	698 - 4200MHz
Insertion Loss	$\leq 6.1 \pm 1.3$ dB
Isolation	≥ 20 dB
VSWR	≤ 1.3 dB
Inter-modulation IM3	$\leq -160 @ 2X43$ dBm Carrier
RF Input Power, CW	≤ 500 W
Impedance	50 Ω
Connector	DIN-F
Net Weight	≤ 3.2 kg
Dimensions (exclude connectors)	170.2x155.6x52 mm /6.7x6.1x2 inch
Operating temperature	-30°C to +65°C
Relative humidity	0~95%
Color	Light Gray (ML440c)
RoHS	Comply with RoHS
Ingress protection	IP66



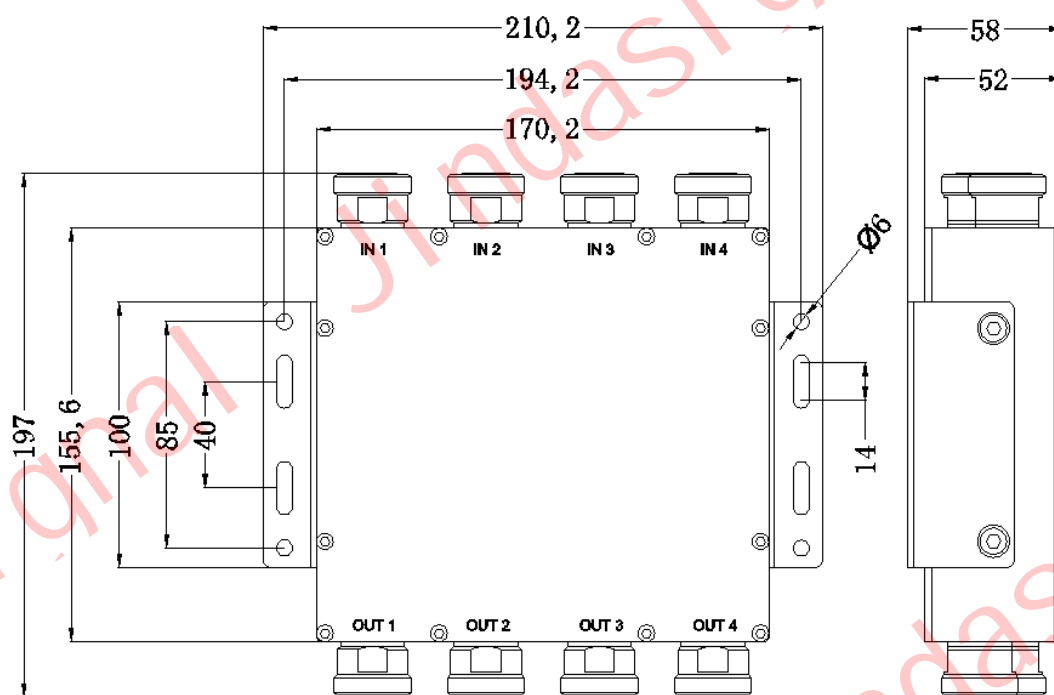
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Block Diagram



Outline Drawing



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