

**Product Name : Hybrid Coupler HC0727-2I2O-ONE****Product Model : HC0727-2I2O-ONE**

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).

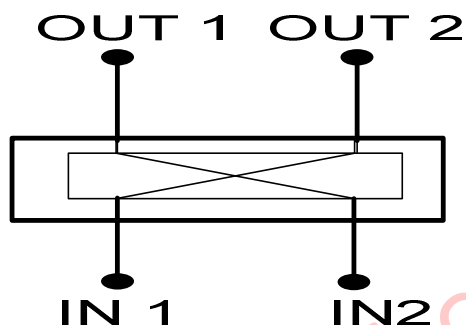
**Product Description**

- ➔ Wide frequency band: 698-2700MHz
- ➔ High power capacity and isolation
- ➔ Low insertion loss
- ➔ Extremely low PIM
- ➔ Supporting indoor and outdoor applications

Specifications

Frequency range	698-2700MHz
Insertion Loss	$\leq 3.0 \pm 0.65$
Isolation	$\geq 23\text{dB}$
VSWR	$\leq 1.25\text{ dB}$
Inter-modulation IM3	$\leq -150\text{dBc REV (2x43 dBm)}$
RF Input Power, CW	200W
Impedance	50Ω
RF Connector Type	N-F
Net Weight	$\leq 0.5\text{ kg}$
Dimensions (exclude connectors)	148 x 44 x 22.5 mm / 5.83x1.73x0.89 inch
Operating temperature	-35°C to +70°C
Relative humidity	0~95%
Color	Black or Custom
RoHS	Comply with RoHS
Ingress protection	IP65
Environment	ETS 300 019
MTBF	>100,000 hours

Block Diagram



Outline Drawing

