

**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	$\leq 3.1 \pm 0.8\text{dB}$
Isolation	$\geq 23\text{dB}$
VSWR	$\leq 1.3\text{ dB}$
Inter-modulation IM3	$\leq -160/-155/-150\text{dBc REV (2x43 dBm)}$
RF Input Power, CW	300W
Impedance	50 $\Omega$
RF Connector Type	4.3-10 F
Net Weight	$\leq 0.44\text{ kg}$
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



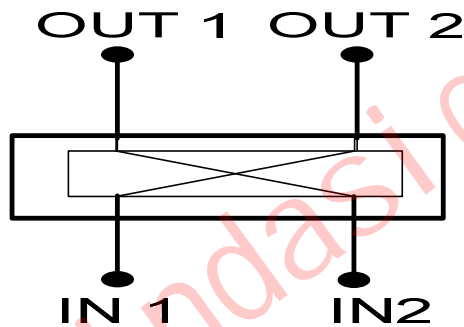
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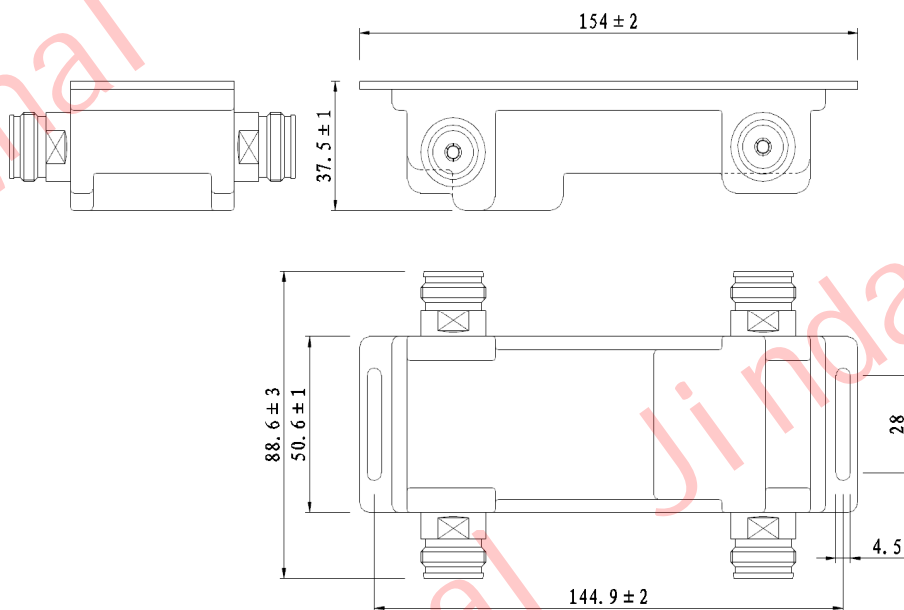
**Product Selection:**

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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