

**Product Name : Hybrid Coupler HC0727-2I10-INA****Product Model : HC0727-2I10-INA**

The Hybrid Combiner is a key component in the field of RF passive signal processing. Its core function is to efficiently combine two RF signals or equally split a single signal, while offering excellent port isolation to effectively prevent signal crosstalk and ensure stable operation of the RF system. This model is suitable for signal processing in low-to-medium power applications, widely used in scenarios such as repeaters and indoor distribution systems. It supports efficient transmission and distribution of multi-band and multi-system signals. The Hybrid Combiner features low insertion loss, high isolation, wide frequency range, and low VSWR, making it ideal for wireless network optimization, Indoor Distribution System (IBS), Distributed Antenna System (DAS), and Antenna Feeder System (AFS).

Product Description

- ➔ Wide frequency band: 698-2700MHz
- ➔ High isolation
- ➔ Low insertion loss
- ➔ Supporting indoor applications

**Specifications**

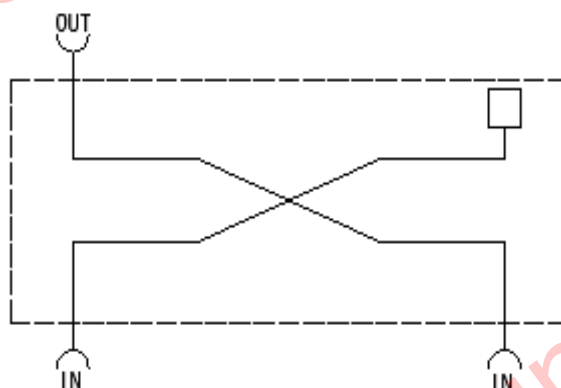
Frequency range	698-2700MHz
Insertion Loss	$\leq 3.0 \pm 0.65$ dB
Isolation	≥ 23 dB
VSWR	≤ 1.25 dB
RF Input Power, CW	50W
Impedance	50 Ω
RF Connector Type	N-F
Net Weight	≤ 0.5 kg
Dimensions (exclude connectors)	142 x 44 x 44 mm / 5.59x1.73x1.73 inch
Operating temperature	-25°C to +75°C
Relative humidity	5~95%
Color	Black or Custom
RoHS	Comply with RoHS
Ingress protection	IP52
Environment	ETS 300 019
MTBF	>100,000 hours



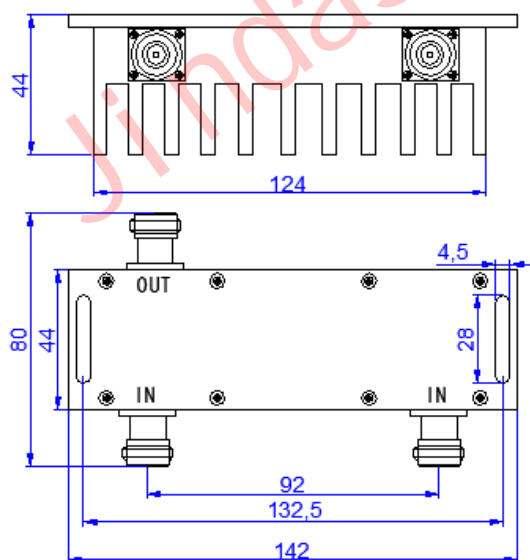
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Block Diagram



Outline Drawing



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