



**Product Name :** 10dB Feed Coupler C0737-10PMI-DC 698-3700MHz

**Product Model :** C0737-10PMI-DC

The feed coupler is a high-performance passive RF device designed for signal coupling and power distribution in wireless communication systems. Its coupling port integrates a power feeding function, which can supply power to the circuit at the coupling output end. Its core function is to couple a portion of power from the main signal path to the coupling port for signal monitoring, power distribution or signal sampling, while maintaining extremely low intermodulation distortion. Widely used in scenarios such as base stations, repeaters and in-building distribution systems, it ensures signal transmission quality and system stability. The coupling port of the feed coupler features a power feeding function, and the output composite signal can supply power to composite antennas with different functions (Bluetooth positioning or IoT sensors) or downstream circuit equipment, solving the power supply problem of multi-stage devices connected to the coupler. The feed coupler boasts excellent performance in terms of low passive intermodulation (PIM), low insertion loss and high power handling capacity, making it suitable for wireless network optimization, in-building distribution systems (IBS), base transceiver stations (BTS), distributed antenna systems (DAS) and antenna-feeder systems (AFS).

#### **Product Description**

- ➔ Wide bandwidth, Applicable to 5G band
- ➔ Low insertion loss
- ➔ Low PIM
- ➔ Small volume, Light weight
- ➔ Higher power capacity
- ➔ Application for indoor



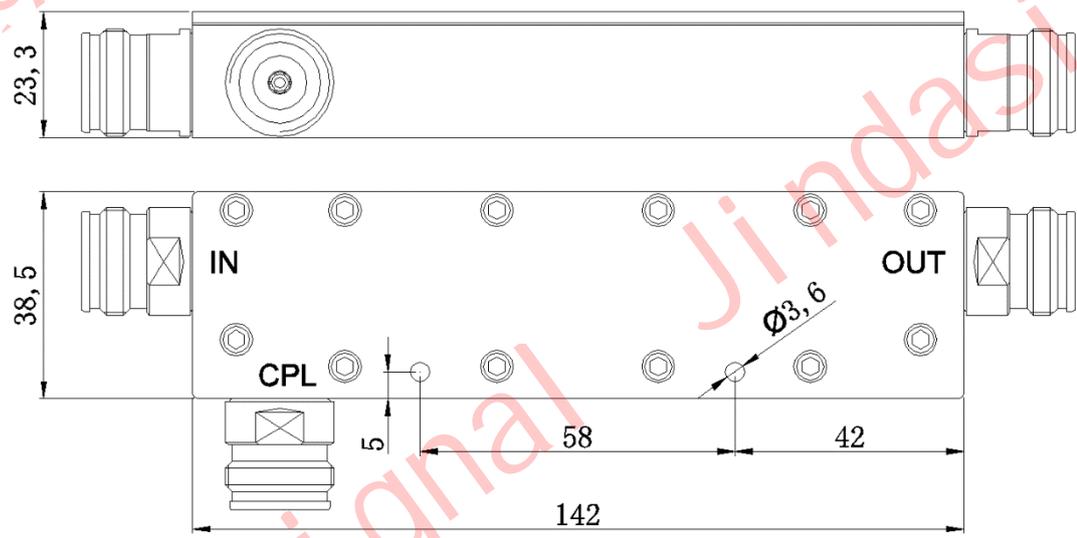


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| Specifications                  |  |
|---------------------------------|--|
| Frequency range                 | 698 - 3700 MHz   |
| Coupling                        | 10 ± 1.2 dB  |
| Insertion Loss                  | < 1.0 dB   |
| Isolation                       | ≥ 22dB dB@698-800<br>≥ 25dB @800-3700  |
| VSWR                            | IN, CPL ≤ 1.3 @ 800-3700MHz<br>OUT ≤ 1.35 @ 800-3700MHz<br>IN, OUT, CPL ≤ 1.6@698-800MHz |
| Impedance                       | 50 Ω   |
| Inter-modulation IM3            | ≤ -150dBc REV (2x43 dBm)   |
| Power capacity                  | ≤ 300 W  |
| Maximum passing current (DC48V) | 3 A  |
| Net Weight                      | ≤ 0.4kg  |
| Dimensions (Exclude connectors) | 142*38.5*23.3 mm /5.59x1.52x0.92 inch  |
| Operating temperature           | -25°C to +65°C   |
| Relative humidity               | 0~95%  |
| Ingress protection              | IP52 (Indoor)  |
| Connector Type                  | 4.3-10-Female  |
| Color                           | Black Paint  |
| RoHS                            | Comply with RoHS   |

**Outline Drawing**



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