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Product Name: RF duplexer 703-748MHz/758-803MHz

Product Model: DUP07-45-INC (SMA)

The RF cavity duplexer is a key passive device in wireless communication systems, used to separate or combine RF signals of different frequency bands, enabling isolation between transmit and receive channels and efficient signal transmission. Its primary function is to ensure that transmitted and received signals do not interfere with each other while sharing the same antenna, thereby enhancing the overall performance and reliability of the communication system. The RF cavity duplexer offers excellent performance in terms of low intermodulation (PIM), low insertion loss, and high rejection, 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

- ➔ Frequency covers 703-748MHz/758-803MHz
- ➔ Low insertion loss
- ➔ High rejection
- ➔ Suitable for indoor applications



Specifications

Frequency	703-748MHz	758-803MHz
Insertion Loss s@ normal temperature	≤2.0dB	≤2.0dB
Insertion Loss @ high or low temperature	≤2.2dB	≤2.2dB
Ripple@ normal temperature	≤1.3dB	≤1.3dB
Ripple@ high or low temperature	≤1.5dB	≤1.5dB
Rejection	≥50dB@ DC-683MHz ≥90dB@ 758-1000 MHz ≥85dB@ 758-1000MHz(@ high or low temperature) ≥90dB@ 1000-3000MHz ≥30dB@ 3000-3600MHz	≥90dB@ DC-748MHz ≥85dB@DC-748MHz(@ high or low temperature) ≥10dB@ 813-824MHz ≥60dB@ 824-849MHz ≥80dB@ 849-3000MHz ≥30dB@ 3000-3600MHz
Return Loss	≥18 dB	
VSWR	≤1.3	
Inter-modulation IM3	≤-140dBc REV (2x43 dBm)	
Power	300W CW	
Impedance	50Ω	

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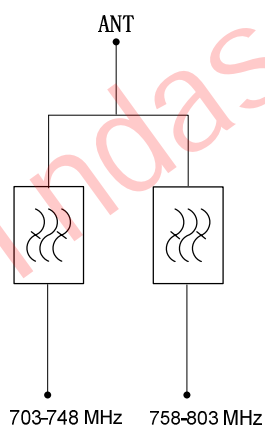


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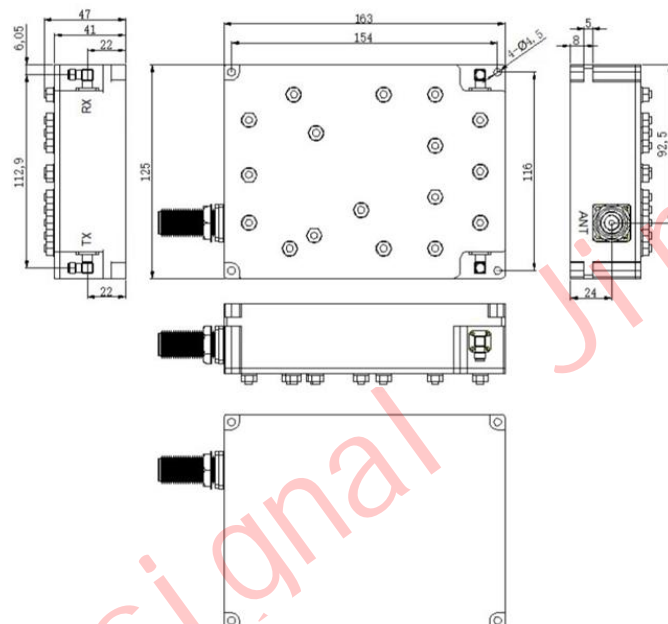
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Net Weight	≤1.25kg
Dimensions(exclude connectors)	163 x 125x 47mm /6.42x4.92x1.85 inch
Operating temperature	-40℃ to +85℃
RF connector	ANT: N Female RX/TX: SMA Female
Relative humidity	0~95%
Color	Silver-plated
RoHS	Comply with RoHS
Ingress protection	IP52

Block Diagram



Outline Drawing



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