



JINDASIGNAL

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Product Name : RF cavity duplexer1920-1980MHz/2110-2170MHz

Product Model : DUP-21-C

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 1920-1980MHz/2110-2170MHz
- ➔ Low insertion loss
- ➔ High rejection
- ➔ Suitable for indoor applications

Specifications

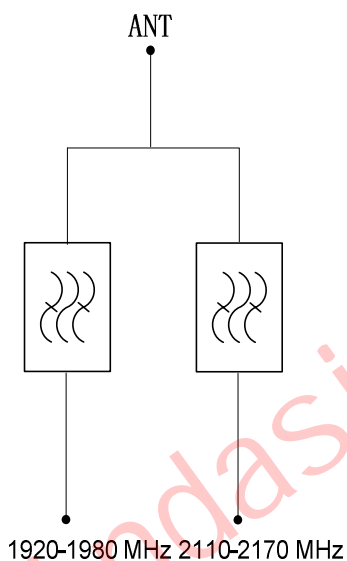
Frequency	1920-1980MHz	2110-2170MHz
Insertion Loss	≤1.2 dB	≤1.2dB
	≤1.4dB (high or low temperature)	≤1.4dB (high or low temperature)
Rejection	≥100dB@ 2110-2170MHz ≥80dB@1710-1880MHz	≥20dB@ 1980-2100MHz ≥20dB @2180-2200MHz ≥95dB@1920-1980MHz ≥95dB@ 1710-1880MHz
Return Loss	≥18 dB	
VSWR	≤1.3	
Inter-modulation IM3	≤-150dBc REV (2x43 dBm)	
Power	100W CW	
Impedance	50Ω	
Net Weight	≤0.87kg	
Dimensions(exclude connectors)	125 x 125x 43mm /4.92x4.92x1.69 inch	
Operating temperature	-20℃ to +55℃	
RF connector	ANT: N-Female RX/TX: SMA Female	
Relative humidity	0~95%	
Color	Silver-plated	
RoHS	Comply with RoHS	
Ingress protection	IP52	

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Block Diagram



Outline Drawing

