

# Technical proposal for JX-CD2-824M1910M-80S Duplexer

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/10/24	Sam Chen	Created	/

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## 1. Mechanical layout

Table 1 Mechanical Specifications

Dimension	L x W x H: 140mm x 65mm x 41mm ( $\pm 0.2\text{mm}$ )
Port connectors	SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

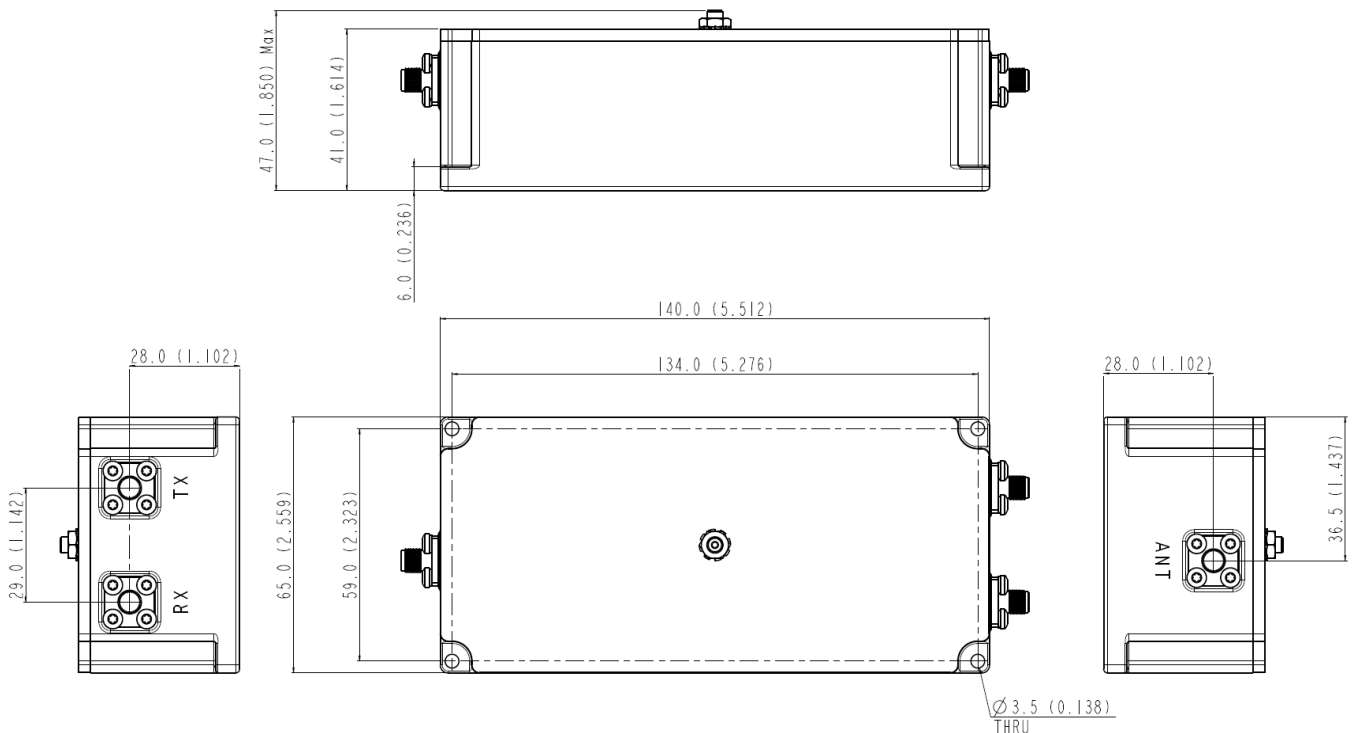


Figure 1 JX-CD2-824M1910M-80S Duplexer front panel layout

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## 2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	RX	TX
1	Frequency range	824-915MHz	1710-1910MHz
2	Insertion loss	$\leq 1.0\text{dB}$	
3	Return loss	$\geq 15\text{dB}$	
4	Isolation	$\geq 80\text{dB}$	
5	Power	100 W	
6	Impedance	50 $\Omega$	
7	Operating Temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$	

### The simulation curve

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