

Technical proposal for JX-CD2-758M806M-85B Duplexer

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/11/08	Sam Chen	Created	/

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1. Mechanical layout

Table 1 Mechanical Specifications

Dimension	L x W x H: 160mm x 150mm x 36mm ($\pm 0.2\text{mm}$)
Port connectors	SMB-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

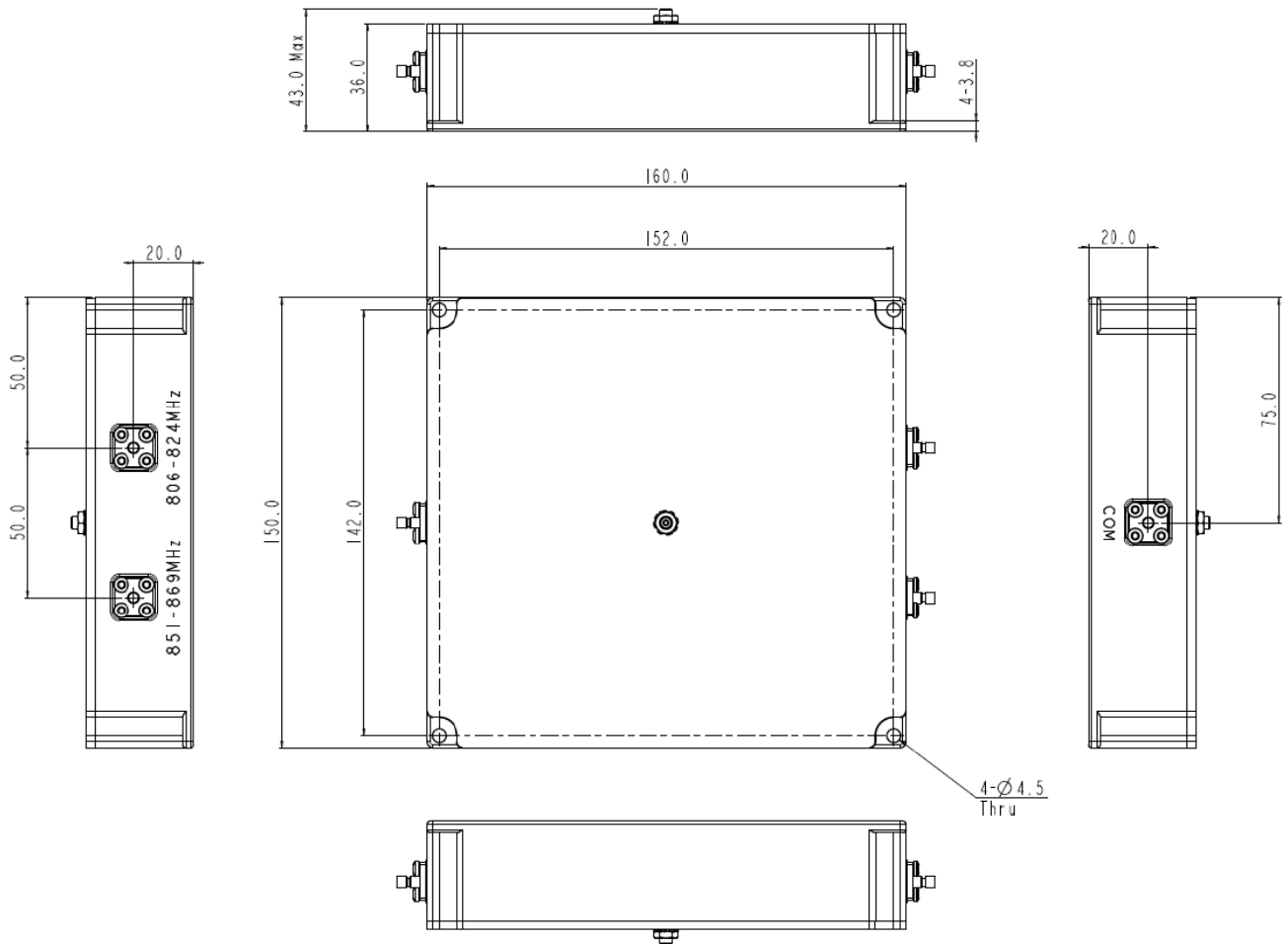


Figure 1 JX-CD2-758M806M-85B Duplexer front panel layout

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2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	Low	High
1	Frequency range	758-776MHz	788-806MHz
2	Insertion loss	$\leq 1.0\text{dB}@758\text{MHz}; \leq 1.3\text{dB}@776\text{MHz}$	$\leq 1.3\text{dB}@788\text{MHz}; \leq 1.0\text{dB}@806\text{MHz}$
3	Ripple	$\leq 1.0\text{dB}$	$\leq 1.0\text{dB}$
4	Return Loss	$\geq 18\text{dB}$	$\geq 18\text{dB}$
5	Rejection	$\geq 85\text{dB}@788\sim 806\text{MHz}$ $\geq 40\text{dB}@782\text{MHz}$	$\geq 85\text{dB}@758\sim 776\text{MHz}$ $\geq 40\text{dB}@782\text{MHz}$
6	Isolation	$\geq 80\text{dB}@758\sim 776\text{MHz}\&782\text{MHz}\&788\sim 806\text{MHz}$	
6	Power	25 W	
7	Impedance	50 Ω	
8	Operating Temperature	$-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$	

The simulation curve

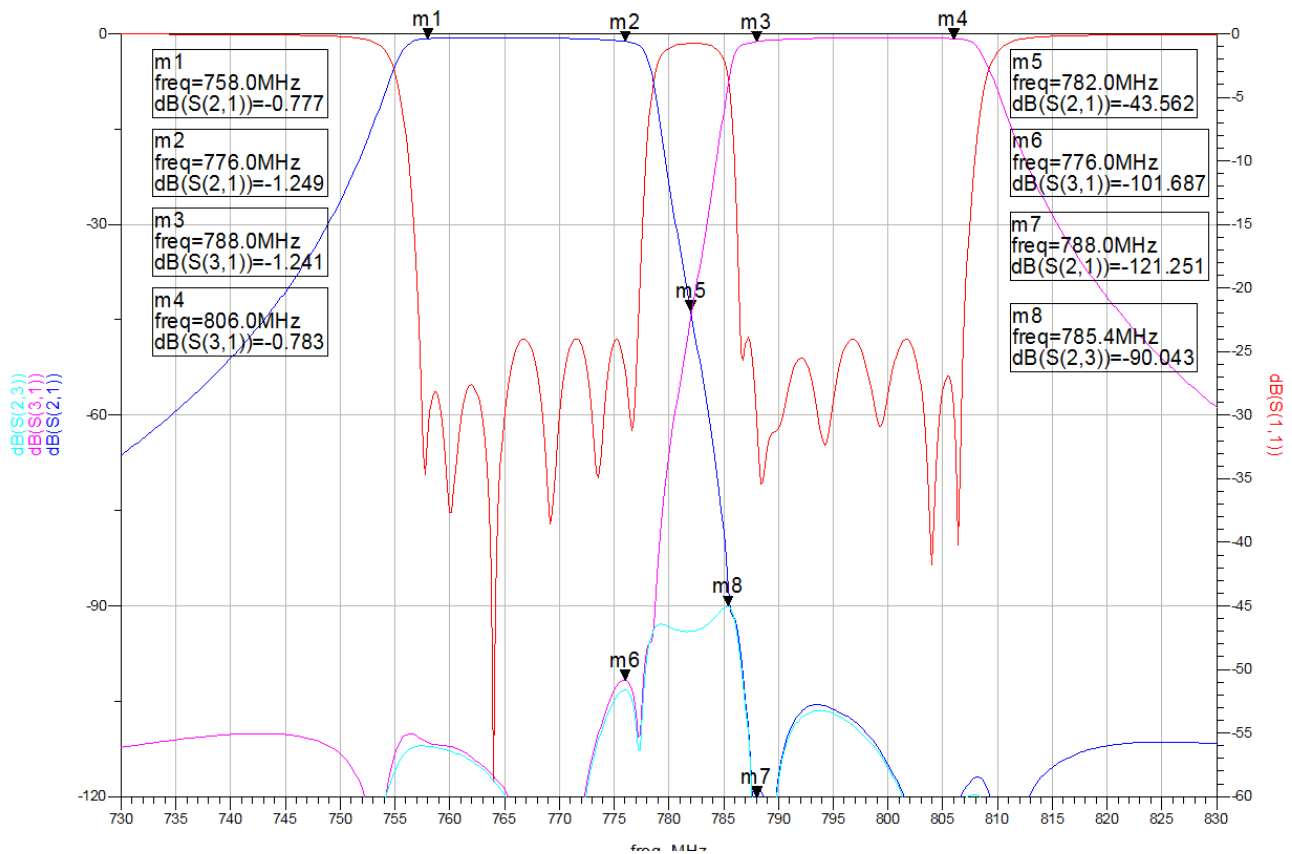


Figure 2 The simulation curve of Duplexer

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