

Technical proposal for JX-CD2-825M890M-60S Duplexer

Revision History

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V1.0	2018/11/30	Sam Chen	Created	/

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1. Mechanical layout

Table 1 Mechanical Specifications

Dimension	L x W x H: 140mm x 62mm x 34mm(± 0.2 mm)
Port connectors	SMA-Female
Finish	Ct.Ocd
Notes	Material shall be RoHS 6/6

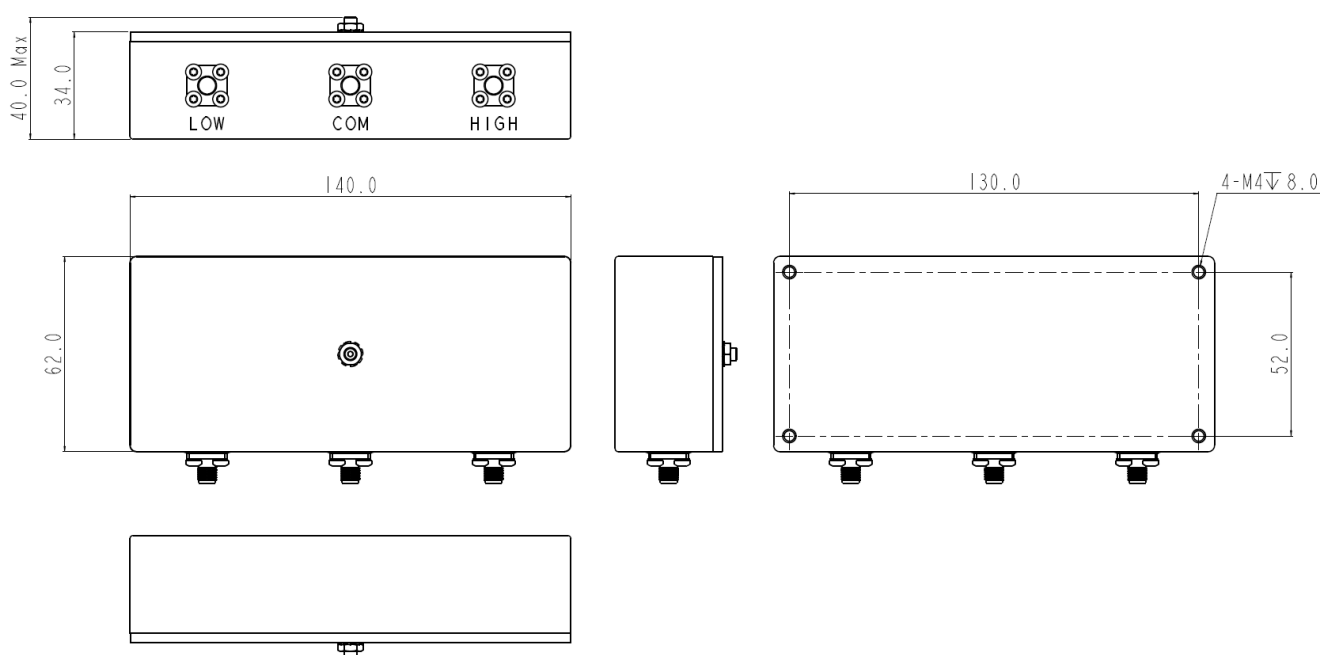


Figure 1 JX-CD2-825M890M-60S Duplexer front panel layout

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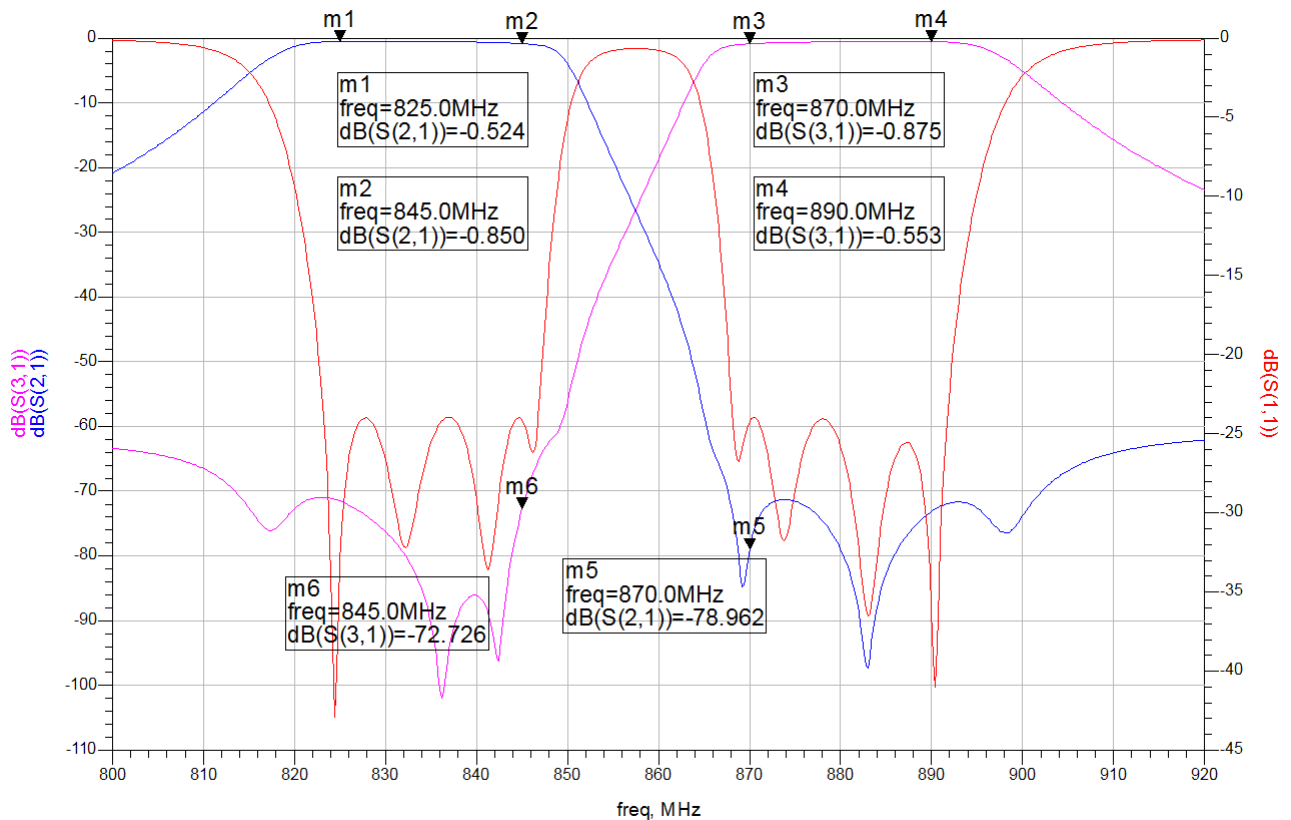
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2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	Low	High	JX Suggest
1	Frequency range	825-845MHz	870-890MHz	OK
2	Insertion loss	$\leq 1.5\text{dB}$	$\leq 1.5\text{dB}$	OK
3	Ripple in BW	$\leq 1.0\text{dB}$	$\leq 1.0\text{dB}$	OK
4	Return Loss	$\geq 18\text{dB}$	$\geq 18\text{dB}$	OK
5	Rejection	$\geq 60\text{dB}@870-890\text{MHz}$	$\geq 60\text{dB}@825-845\text{MHz}$	OK
6	Power	25W		OK
7	Impedance	50 Ω		OK
8	Operating Temperature	-40 $^{\circ}\text{C} \sim +85^{\circ}\text{C}$		OK

The simulation curve



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