



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band5 / BC0 Duplexer	DATE	Nov. 16, 2011
FMD P/N	FAR-D5PF-881M50-M3E9	Version 1.0cc	Final

Table 1-1. Electrical Specification

Item			Condition (MHz)	Specification (ver.1.0cc)			Unit	Remarks
				Min	Typ	Max		
Tx to ANT	Insertion loss		824~849	-	1.5	1.9	dB (*1)	
	Ripple		824~849	-	0.3	0.9	dB	
	VSWR	ANT	824~849	-	1.5	2.0	-	
		Tx		-	1.7	2.0	-	
	Input Power		824~849	29dBm, Ta=+50 °C ,50kh,CW			dBm	
	Absolute attenuation		DC~750	25	33	-	dB	
			779~804	30	40	-	dB	
			860~870	3	7	-	dB	
			869~894	45	50	-	dB	
			1574~1577	45	50	-	dB	
			1648~1698	40	49	-	dB	
			2472~2547	25	33	-	dB	
ANT to Rx	Insertion loss		869~894	-	1.8	2.4	dB (*1)	
	Ripple		869~894	-	0.6	1.4	dB	
	VSWR	Ant	869~894	-	1.7	2.0	-	
		Rx		-	1.7	2.0	-	
	Absolute attenuation		779~804	51	57	-	dB	
			824~849	51	54	-	dB	
Tx to Rx	Isolation		824~849	55	58	-	dB	
			869~894	47	51	-	dB	
Terminating Impedance			Tx port	50			Ohm	Single-ended
			Rx port	50			Ohm	Single-ended
			Ant port	50 // 8.2nH			Ohm	Single-ended
Operating Temperature				-30 to +85			°C	
Device size (LxWxH)				2.0 x 1.6 x 0.5			mm	

(*1) Specification of insertion loss excludes loss that comes from the test board. (Approximately 0.05dB)



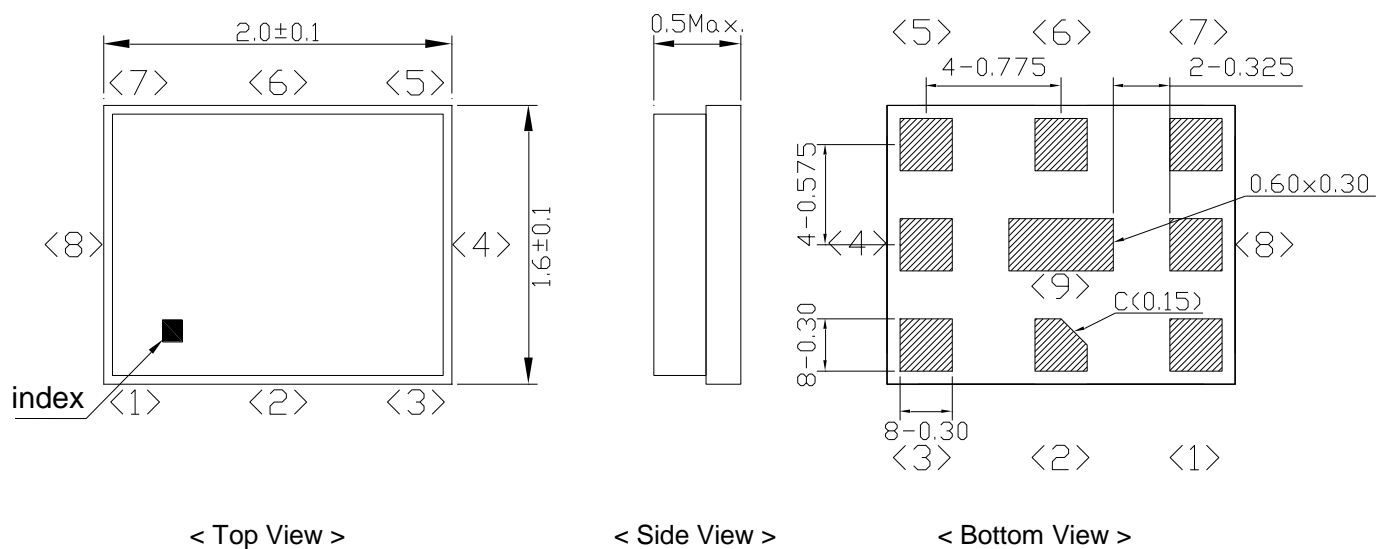
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Dimensions



Unit: mm

Pin Configuration

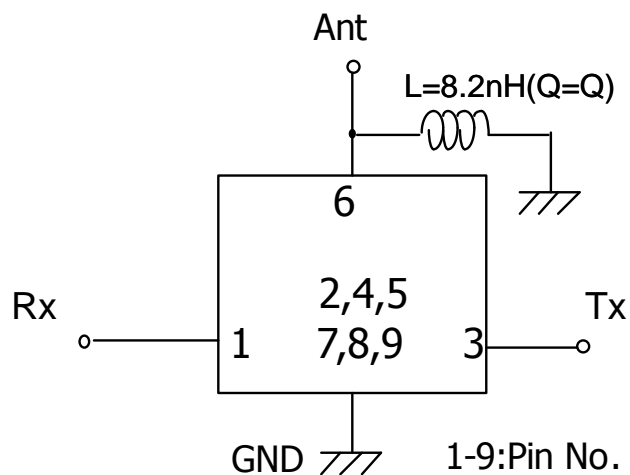
Pin No.	Pin name	Description
1	Rx	Receiver Pin
2	GND	Ground Pin
3	Tx	Transmitter Pin
4	GND	Ground Pin
5	GND	Ground Pin
6	ANT	Antenna Pin
7	GND	Ground Pin
8	GND	Ground Pin
9	GND	Ground Pin

Figure 1. Dimensions and Pin assignment

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Evaluation Circuit



Recommended foot print pattern

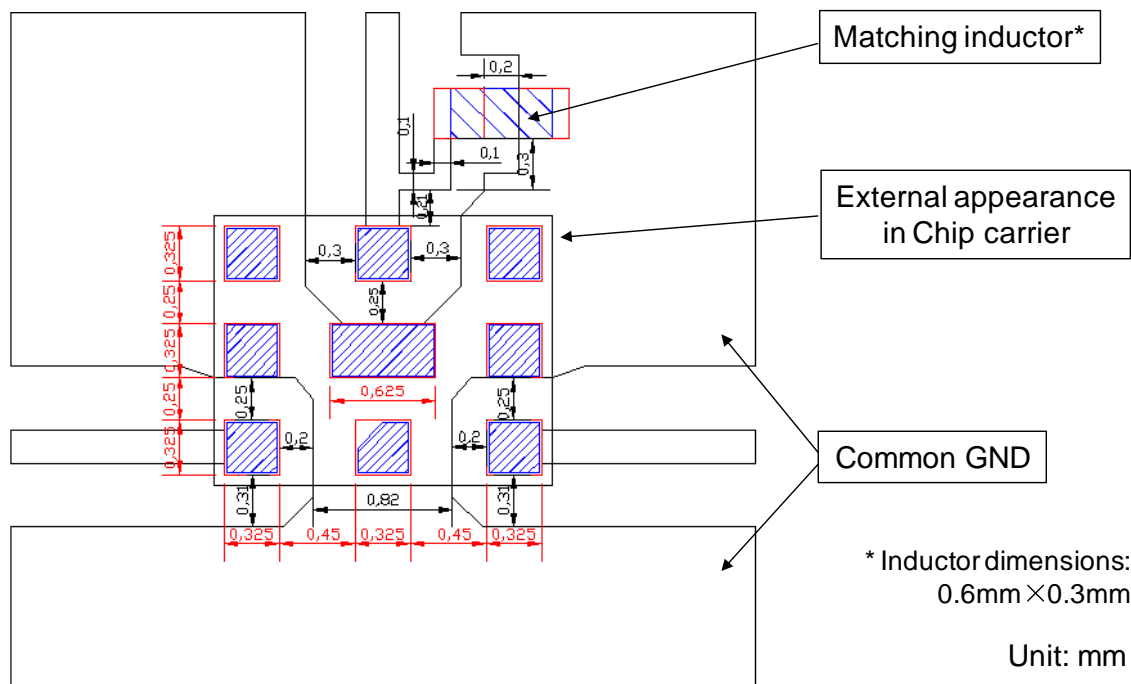


Figure 2. Recommended foot print pattern



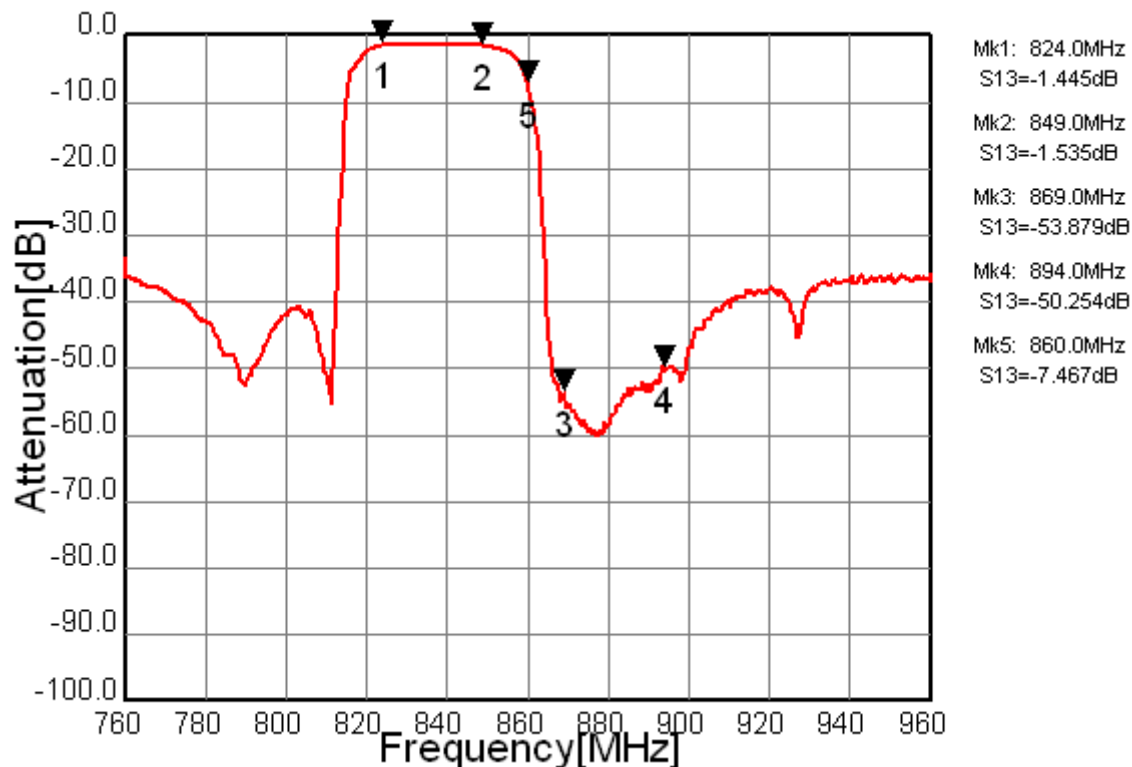
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Tx to Ant



Ant to Rx

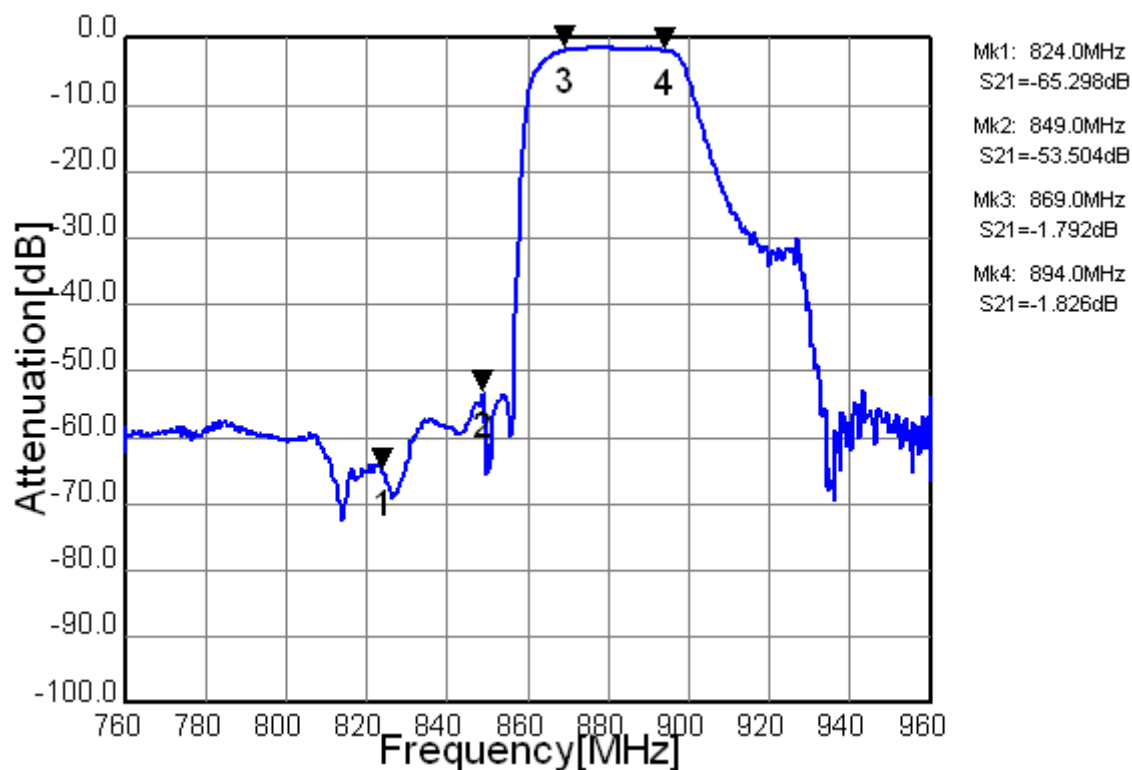


Figure 3-1. Electrical Characteristics

These data **include** loss that comes from the test board. (Approximately 0.05dB)

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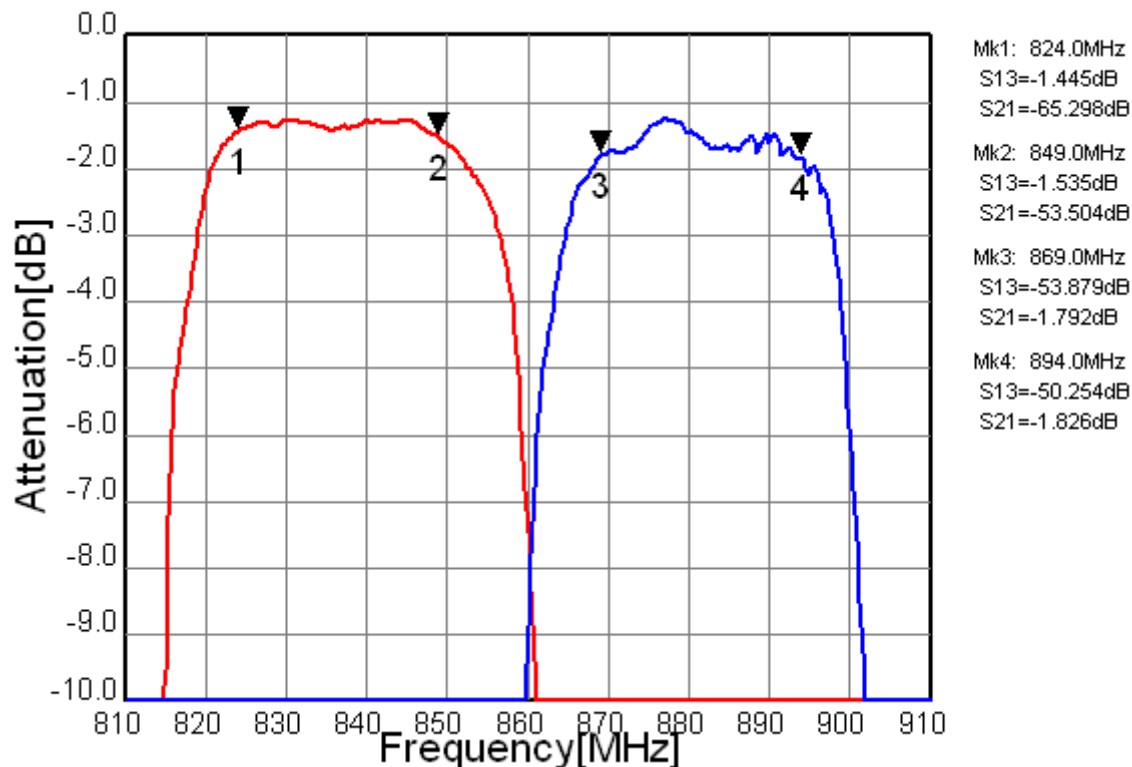
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

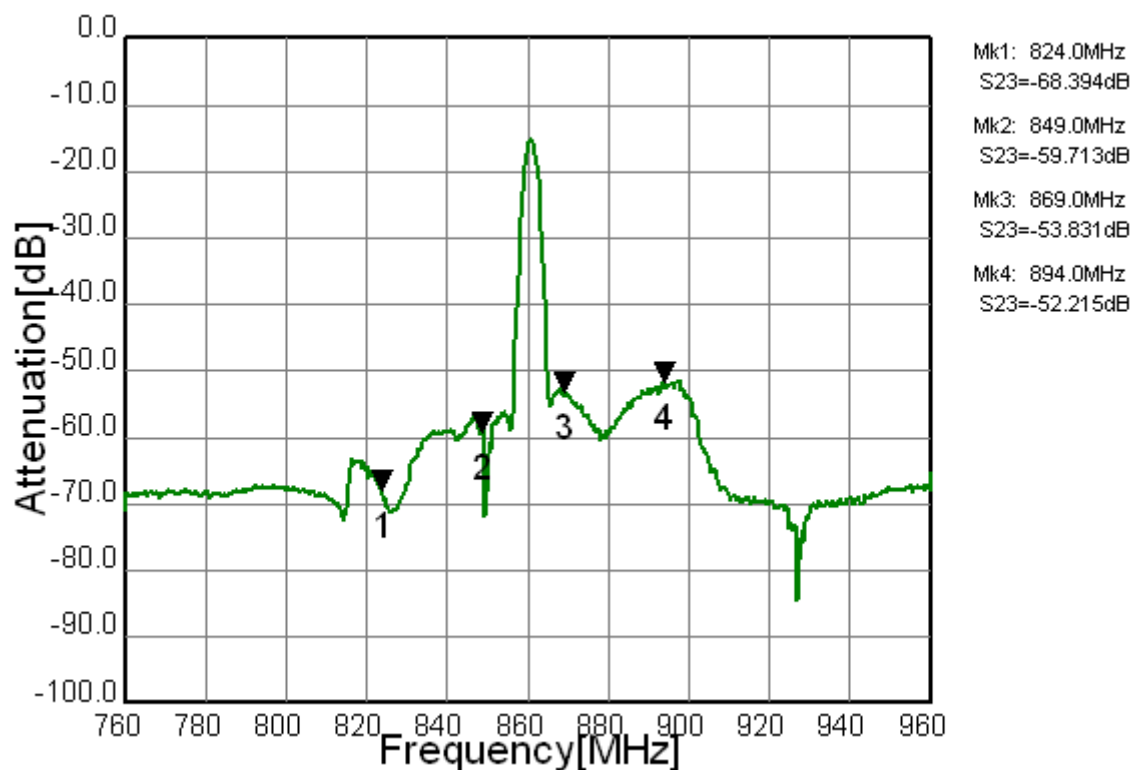


Figure 3-2. Electrical Characteristics

These data **include** loss that comes from the test board. (Approximately 0.05dB)

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Tx Port

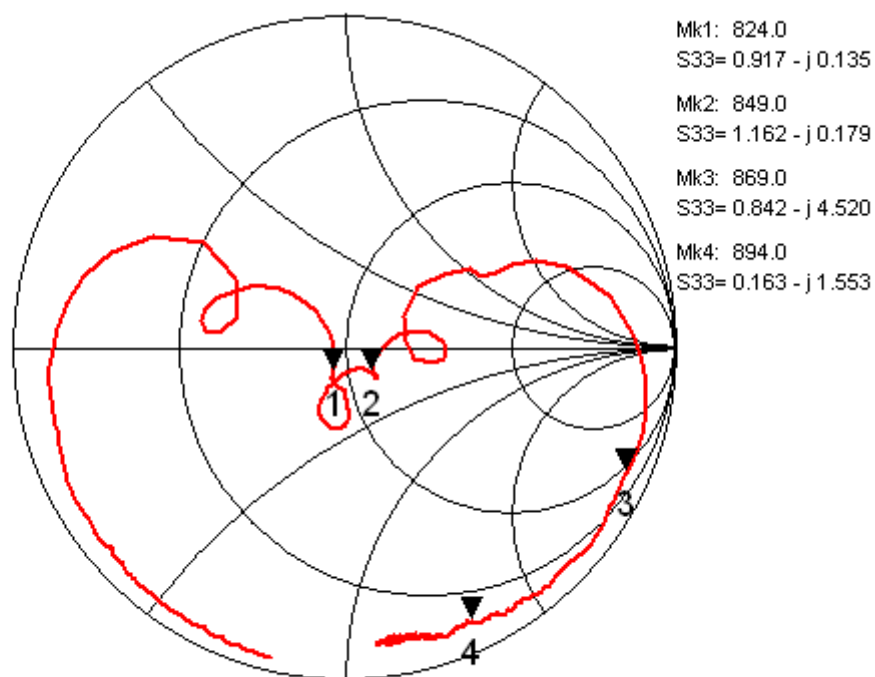
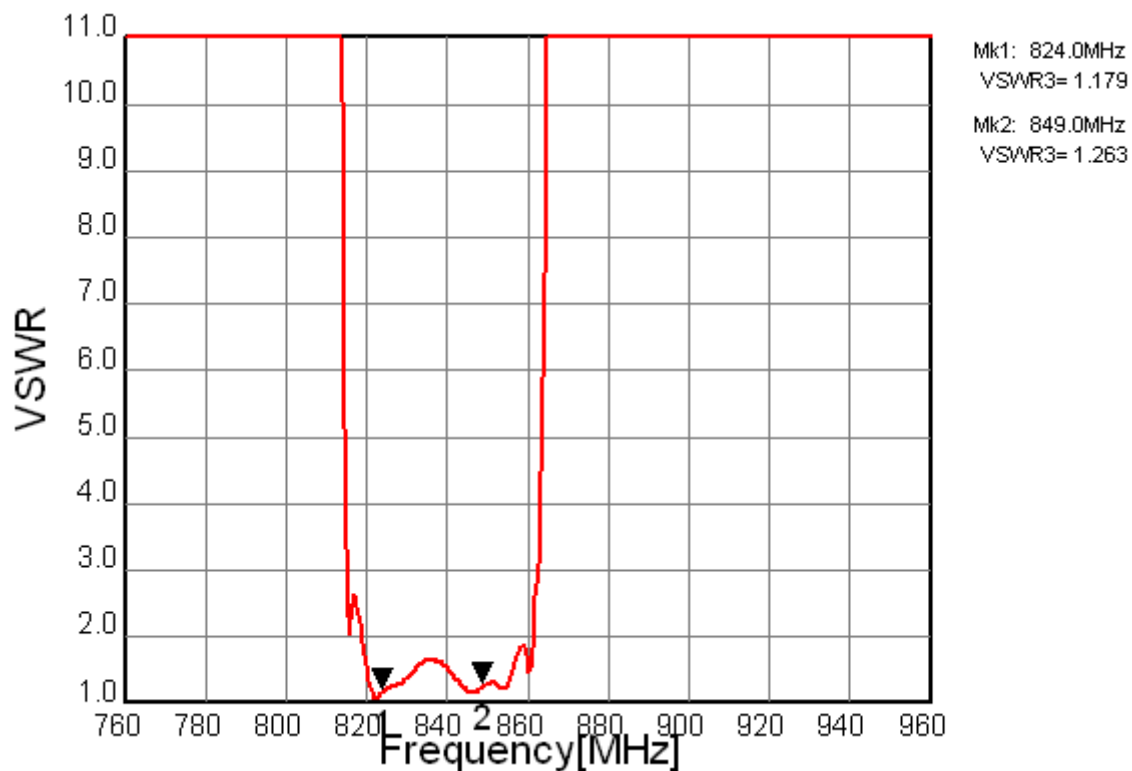


Figure 3-3. Electrical Characteristics

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Rx Port

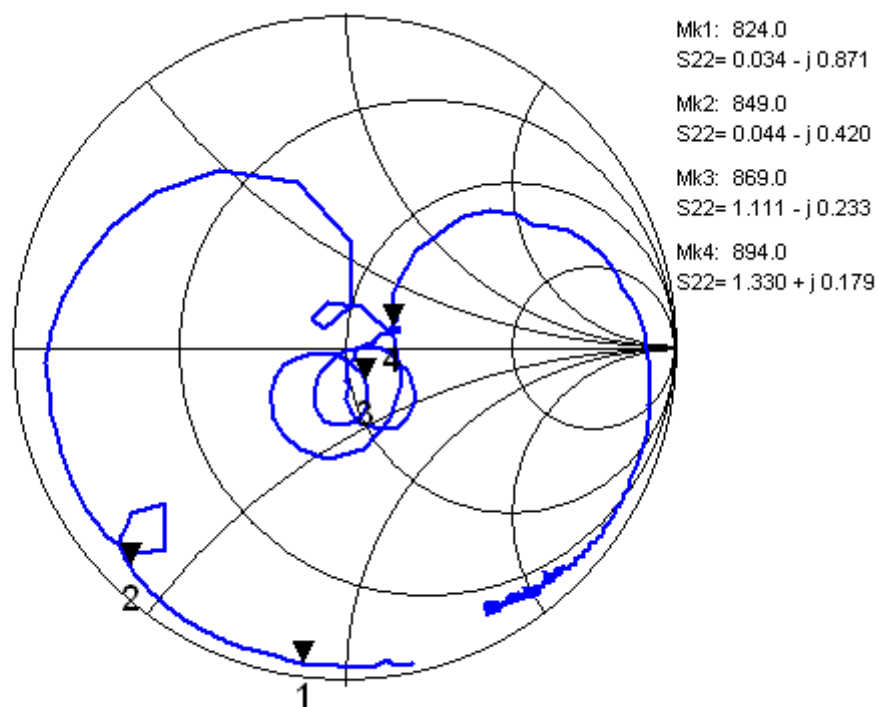
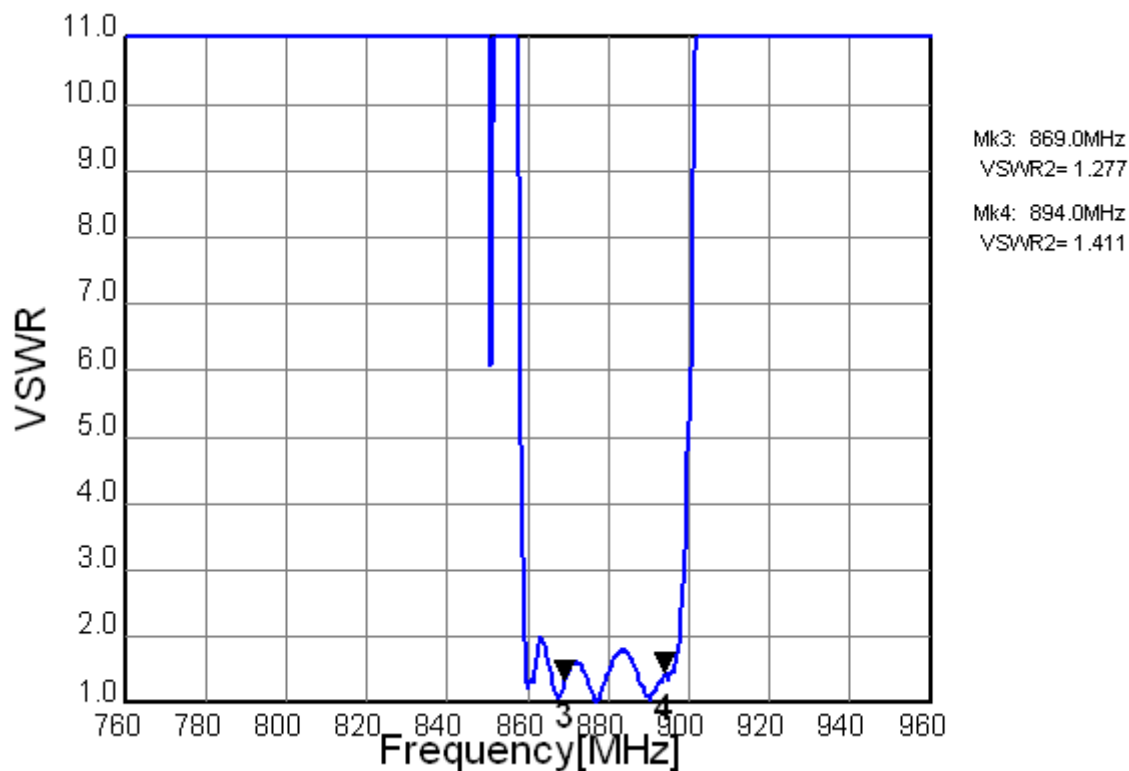


Figure 3-4. Electrical Characteristics

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Ant Port

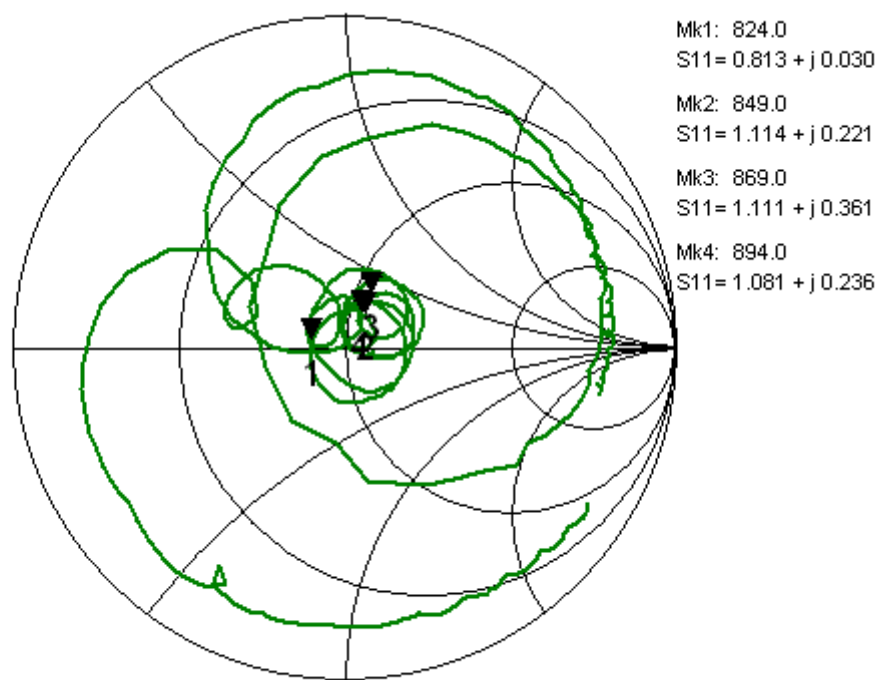
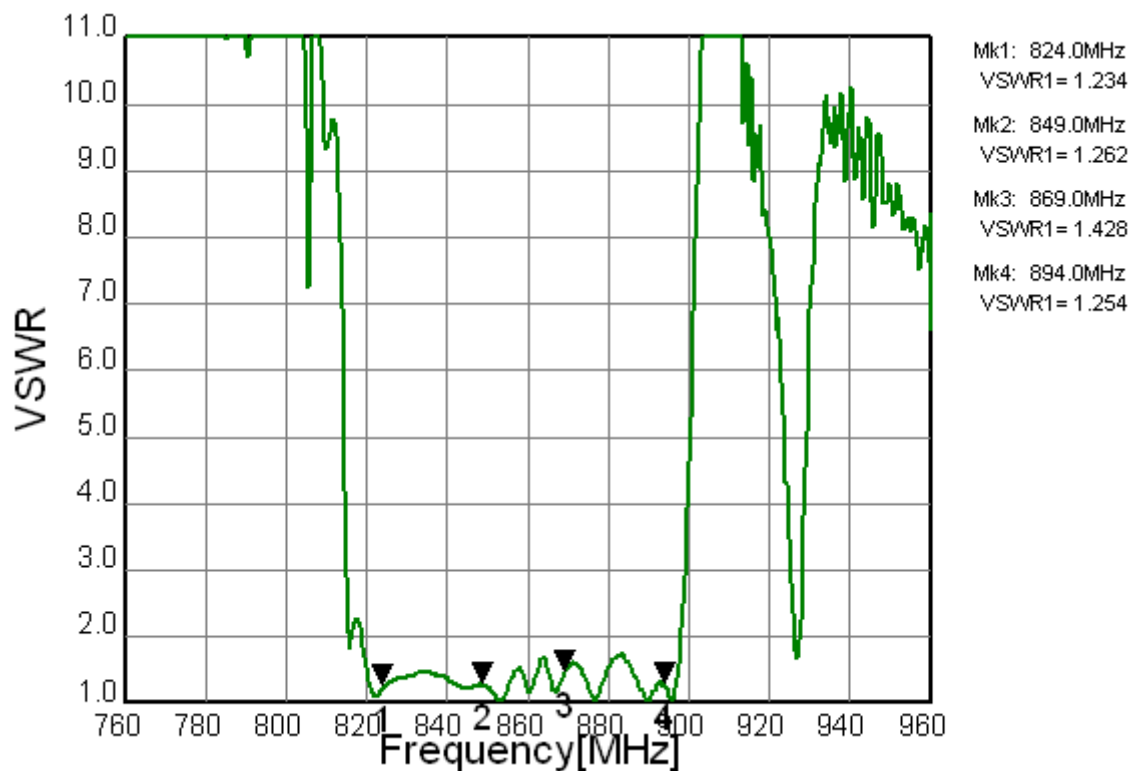


Figure 3-5. Electrical Characteristics

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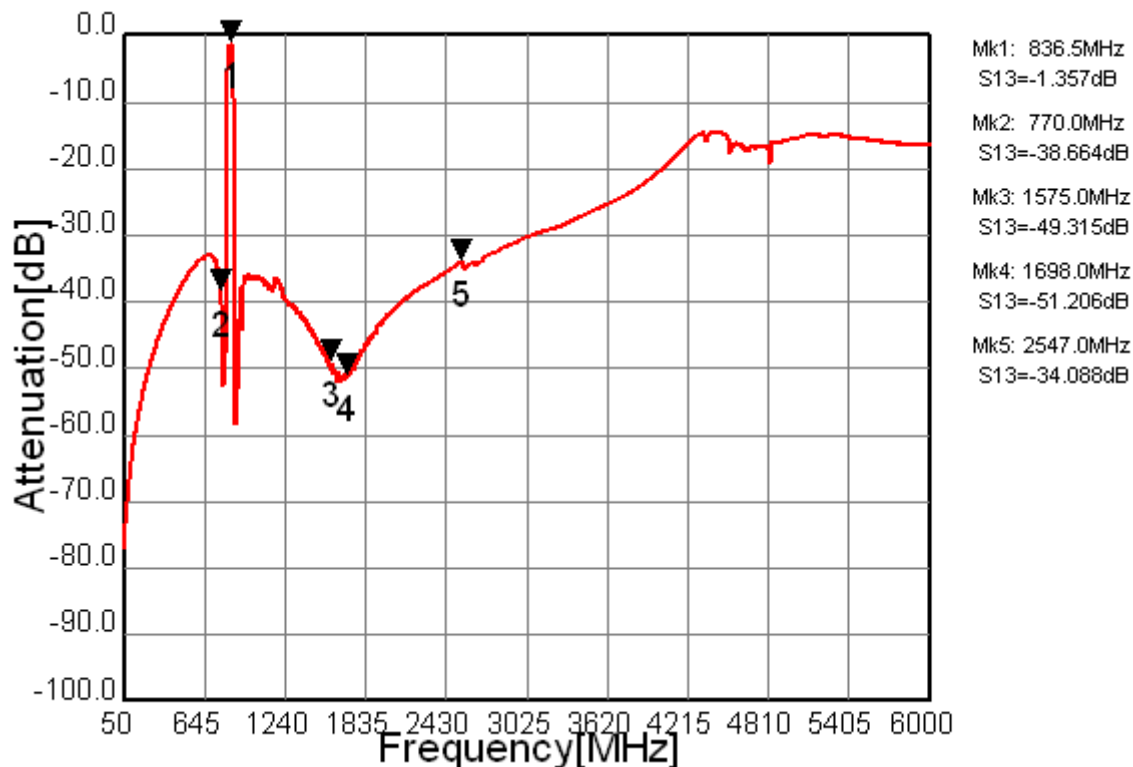
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Tx to Ant (Wide span)



Ant to Rx (Wide span)

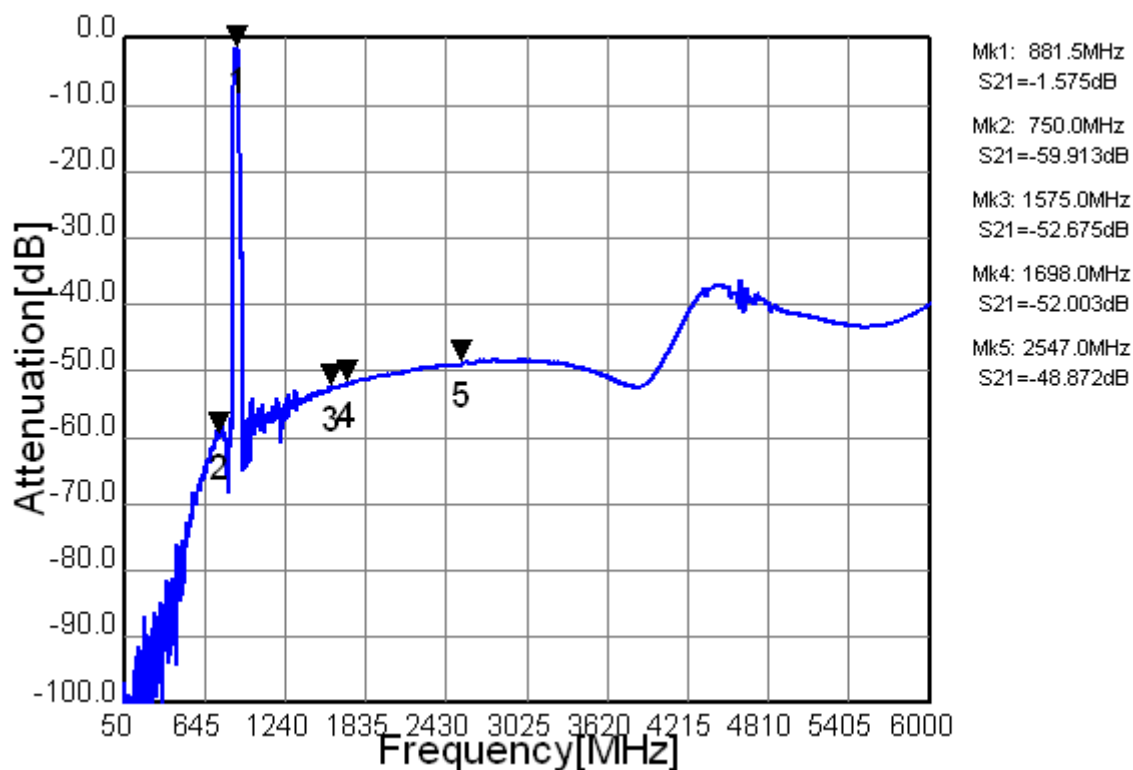


Figure 3-6. Electrical Characteristics

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Ordering Code

Ordering Code	Packing	Reel size	Status
FAR-D5PF-881M50-M3E9- Z	Tape & Reel	3,000 pcs.	MP
FAR-D5PF-881M50-M3E9- ZA	Tape & Reel	less than 3,000 pcs.	MP
FAR-D5PF-881M50-M3E9- Y	Tape & Reel	15,000 pcs.	MP
FAR-D5PF-881M50-M3E9	Bulk	few pcs.	MP

*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives..

*MP : Mass Production

Notice

All of the contents specified herein are subject to change without notice due to technical improvements, etc.

Please contact TAIYO YUDEN Co., Ltd. for further details of product specifications.

Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.

This product is for general electronics equipment such as Audio-Visual equipment, household electronics, office supplies, information services and telecommunications; therefore, in case this product is used for any medical equipment, space equipment, nuclear equipment or disaster prevention equipment, please contact TAIYO YUDEN in advance.

In case this product is used for general electronics equipment or circuits which require high safety and high reliability, thoroughly evaluate on safety and add a protection circuit if necessary.