



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band V Duplexer	Date	March 31, 2010
Part Number	FAR-D5NG-881M50-M11Z	Version 3.1de	

Table 1. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks	
			Min	Typ	Max			
Tx to ANT	Insertion loss	824~849	-	1.45	1.8	dB (*1)		
	Ripple	824~849	-	0.4	0.9	dB		
	VSWR	Ant	824~849	-	1.5	2.0	-	
		Tx		-	1.6	2.0		
	Input Power		+29dBm, Ta=+50°C 50kh,CW			-		
	Absolute attenuation	DC~750	25	33	-	dB		
		779~804	30	38	-	dB		
		869~894	45	51	-	dB		
1574~1577		45	49	-	dB			
1648~1698		36	47	-	dB			
	2472~2547	23	31	-	dB			
ANT to Rx	Insertion loss	869~894	-	1.80	2.2	dB (*1)		
	Ripple	869~894	-	0.7	1.3	dB		
	VSWR	Ant	869~894	-	1.7	2.0	-	
		Rx		-	1.7	2.0		
	Absolute attenuation	779~804	53	60	-	dB		
		824~849	55	65	-	dB		
		1738~1788	47	54	-	dB		
		2400~2500	47	52	-	dB		
2607~2682		47	52	-	dB			
Tx to Rx	Isolation	824~849	57	66	-	dB		
		869~894	48	52	-	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 (L typ. x W typ. x H max.)		2.5 x 2.0 x 0.6			mm			

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

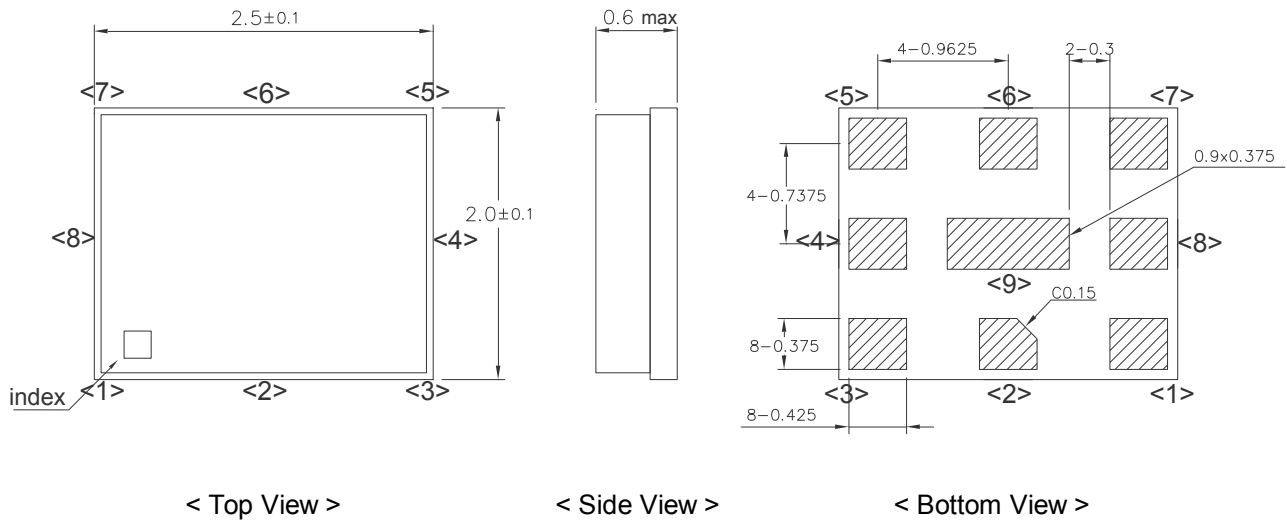


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Dimensions



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

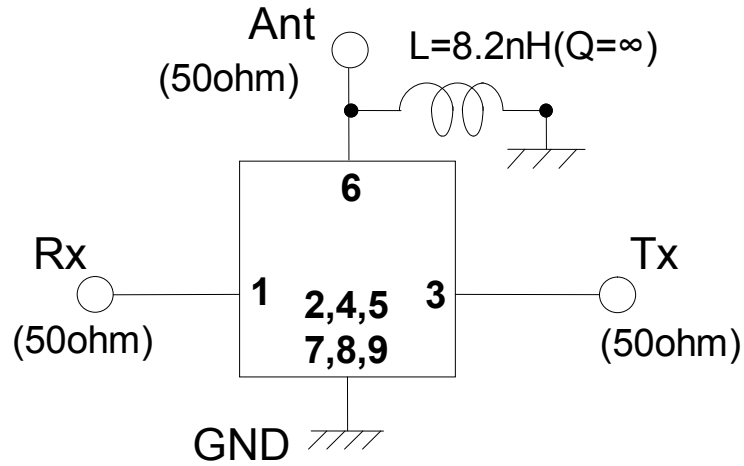


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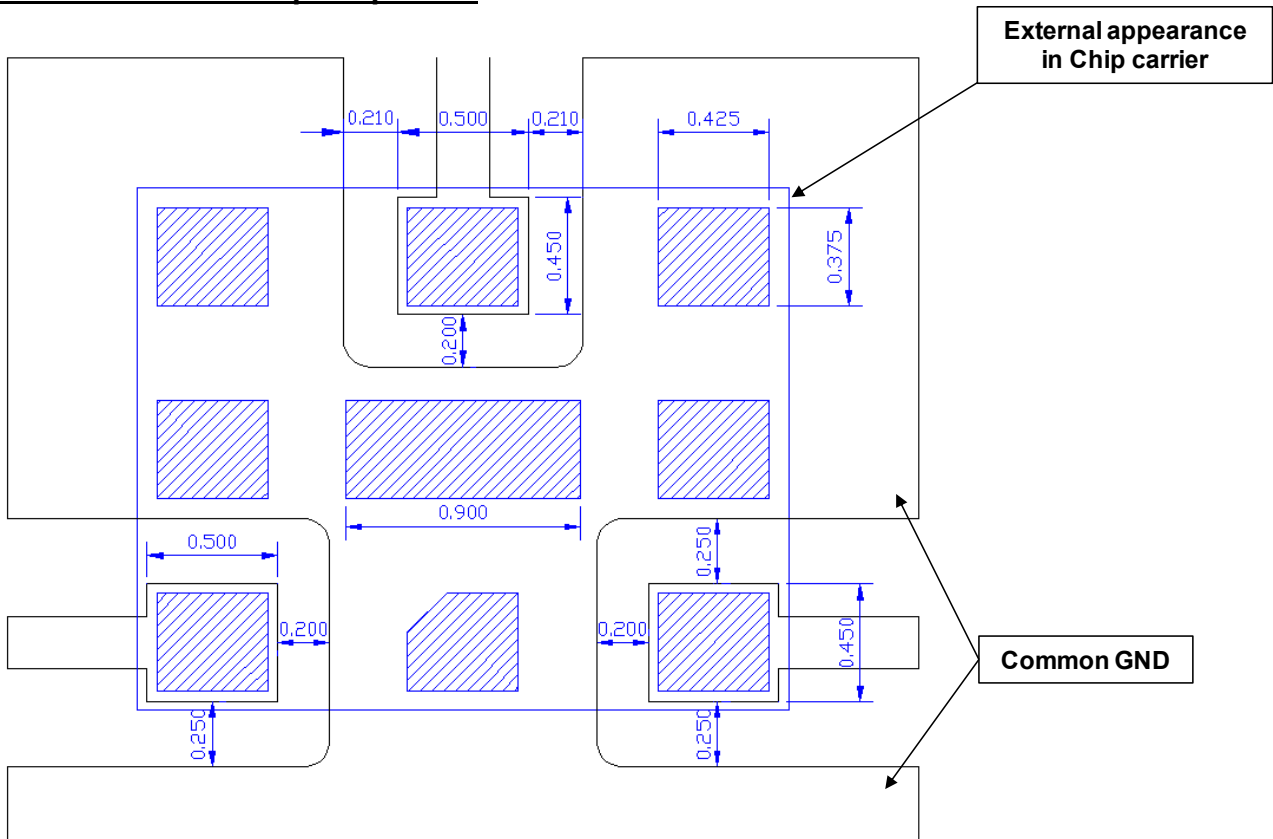
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Evaluation Circuit



1~9 : Pin No.

Recommended foot print pattern



Unit: mm

Figure 2. Recommended foot print pattern

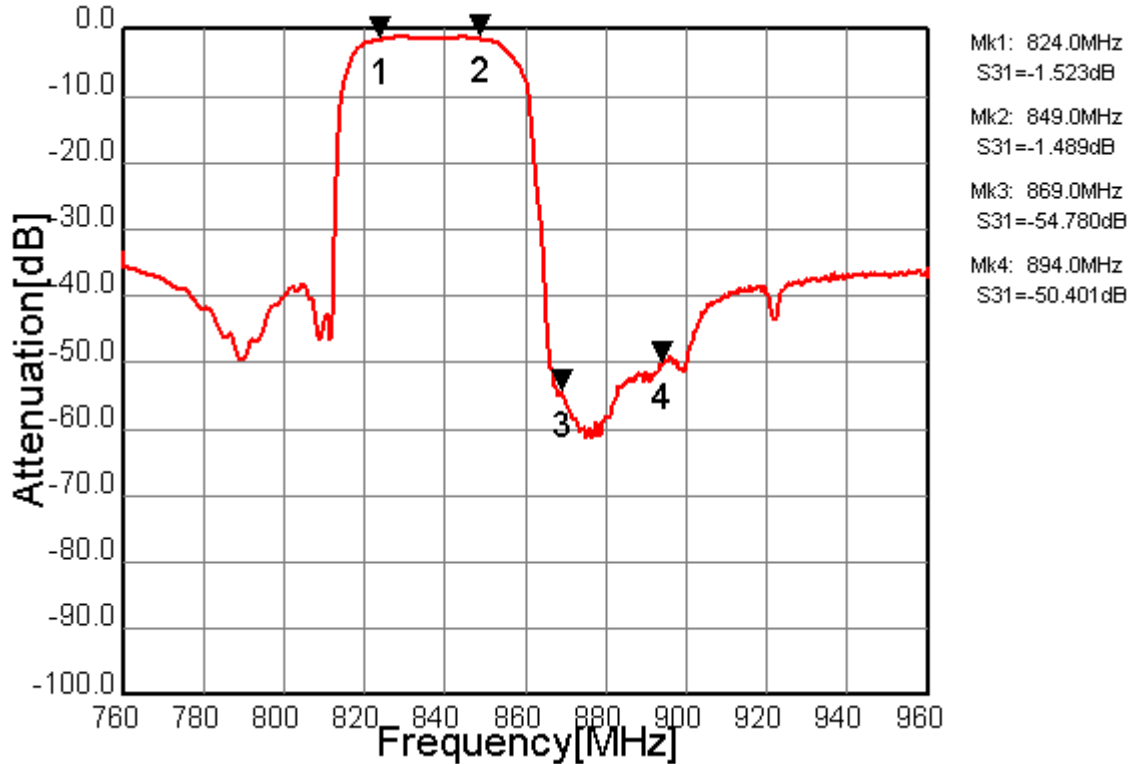


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Tx to Ant



Ant to Rx

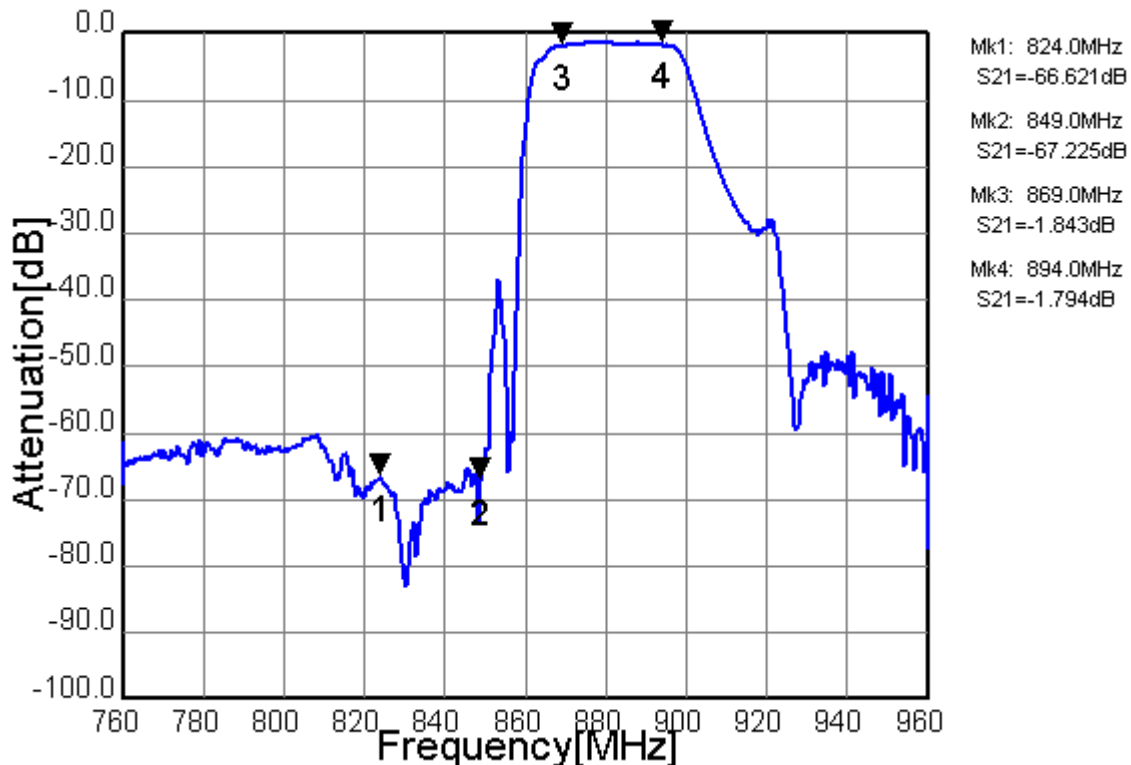


Figure 3-1. Electrical Characteristics

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

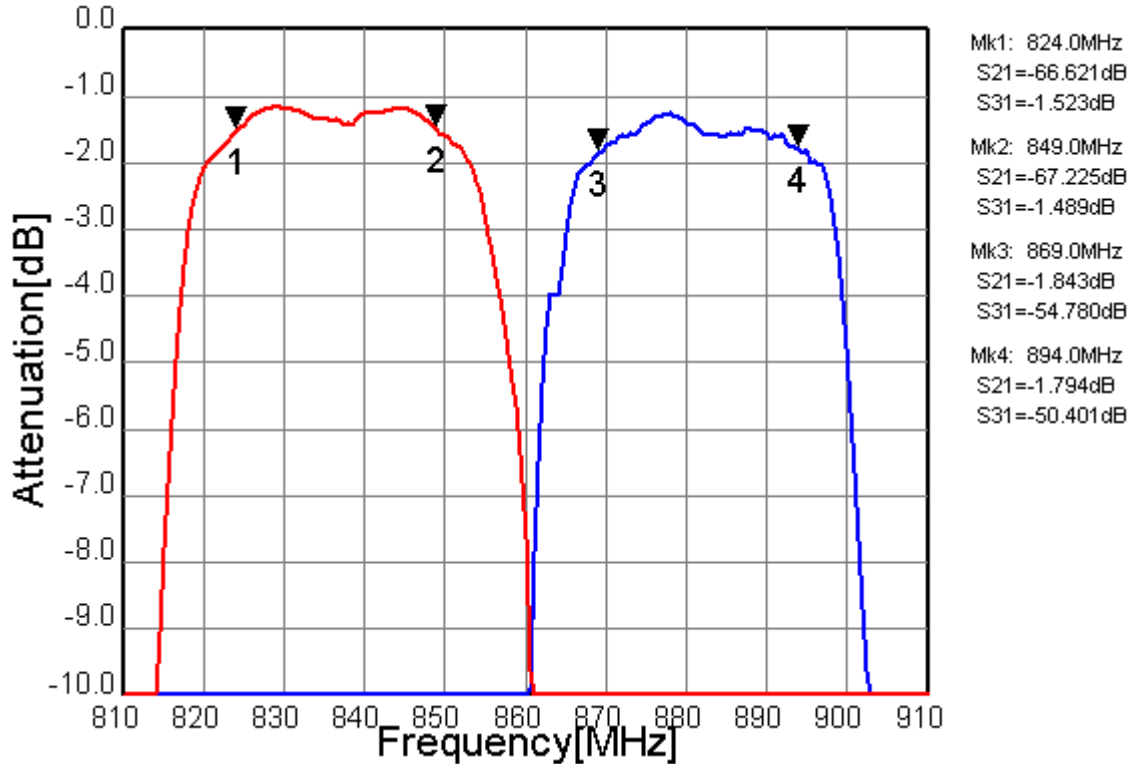


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Tx to Ant, Ant to Rx



Tx to Rx Isolation

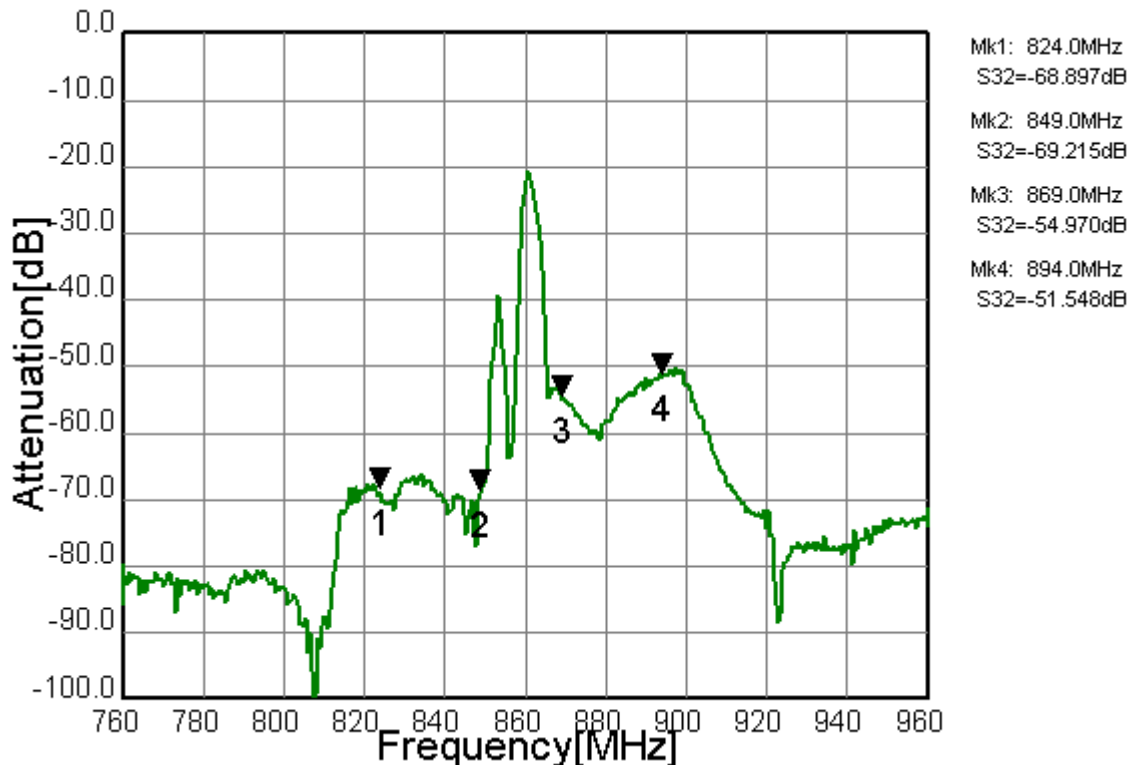


Figure 3-2. Electrical Characteristics

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



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Tx Port

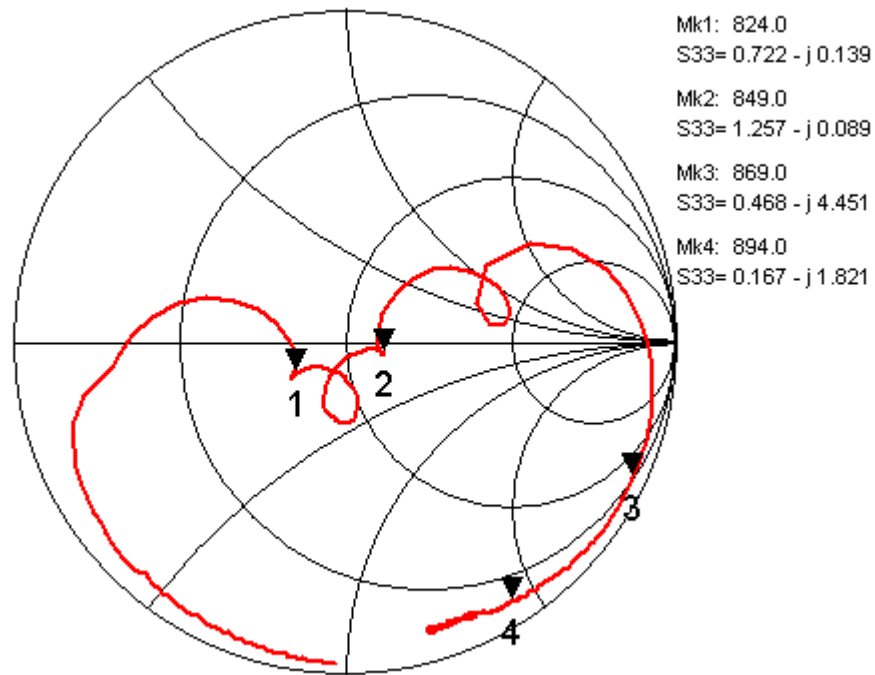
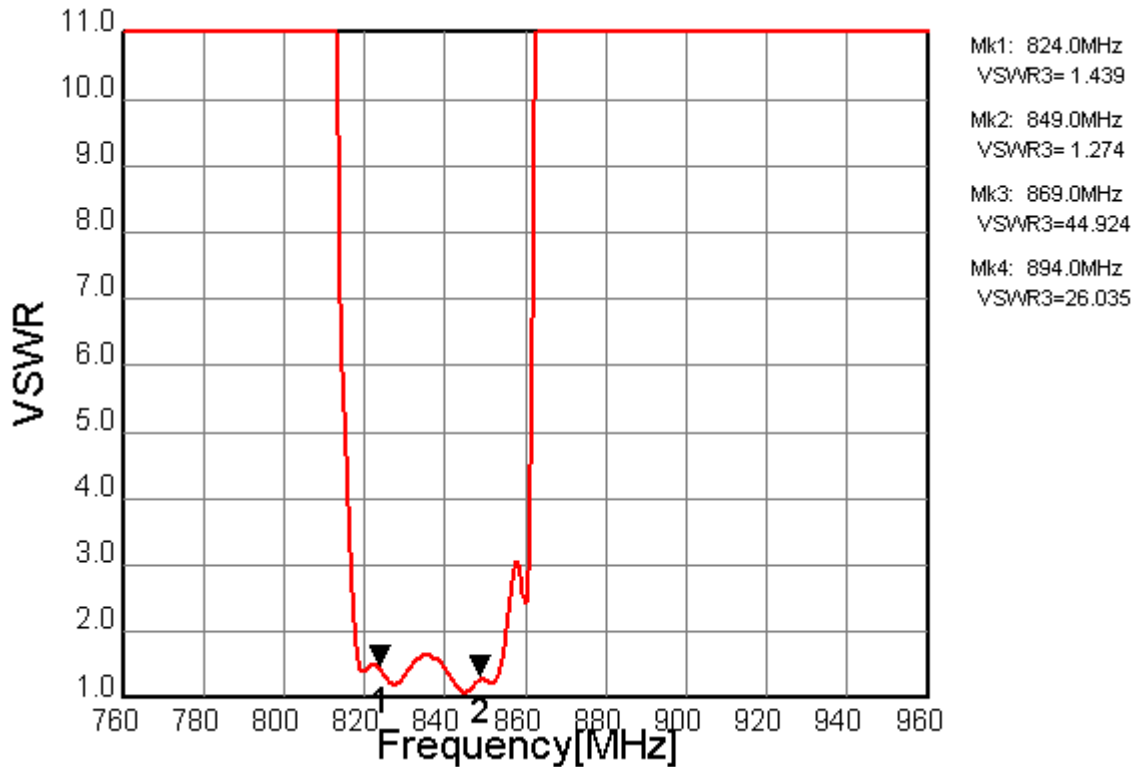


Figure 3-3. Electrical Characteristics



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Rx Port

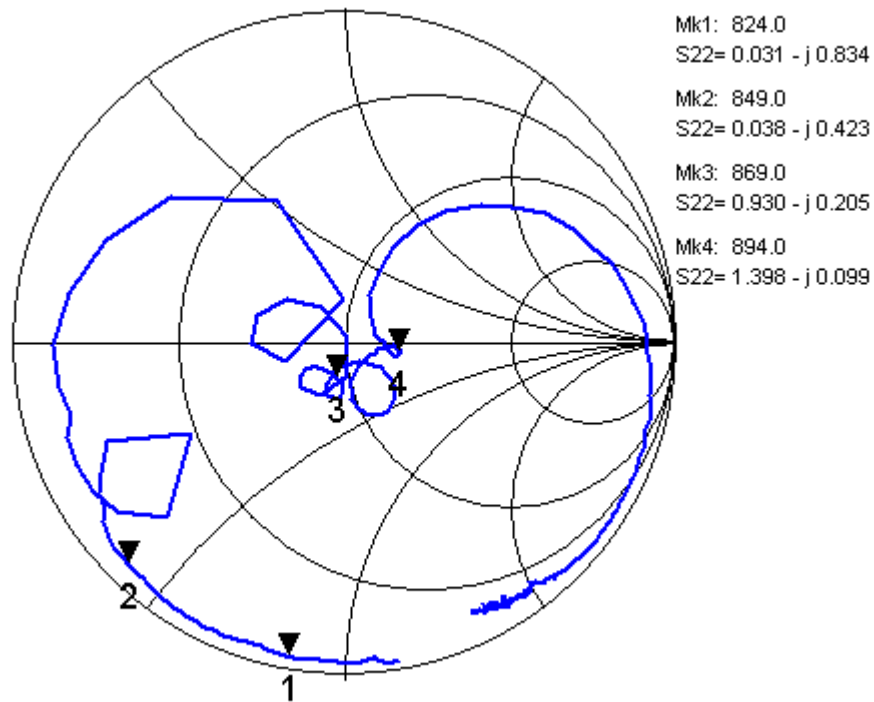
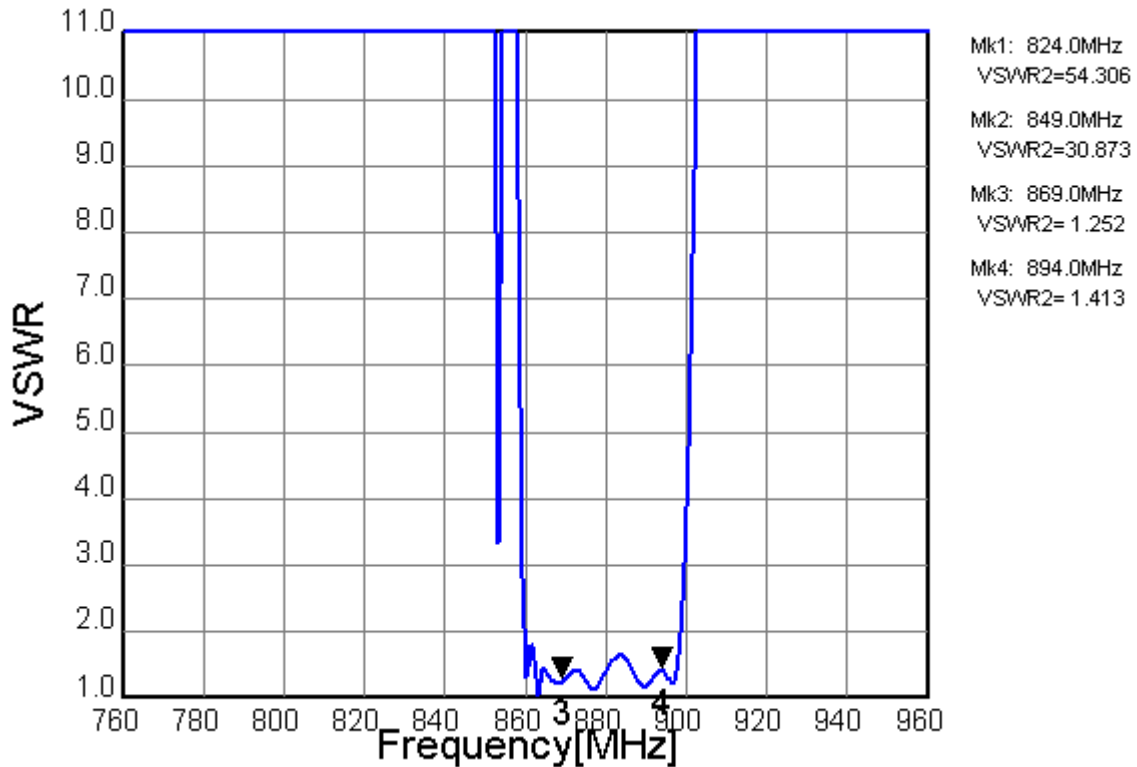


Figure 3-4. Electrical Characteristics



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Ant Port

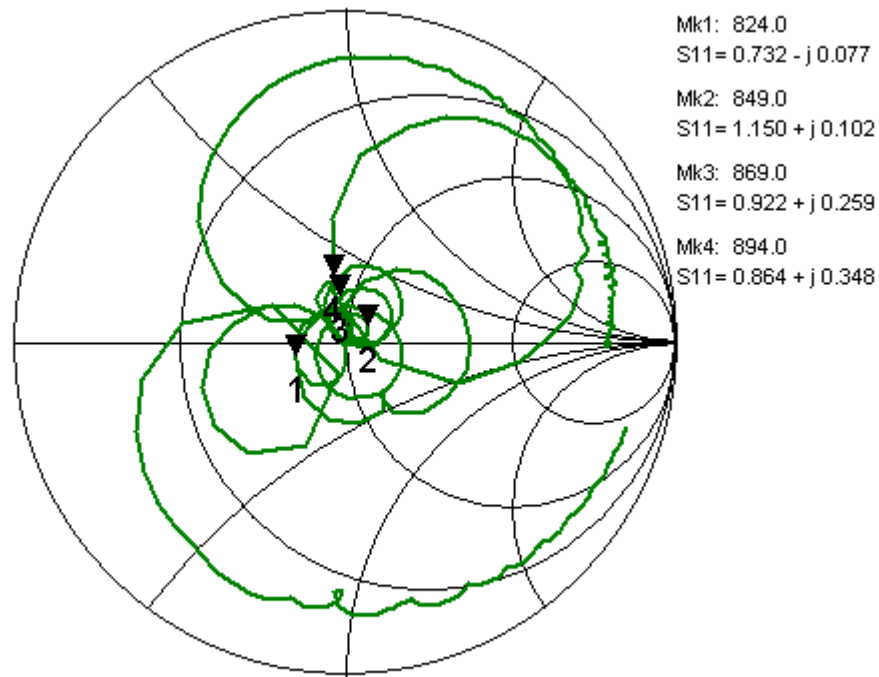
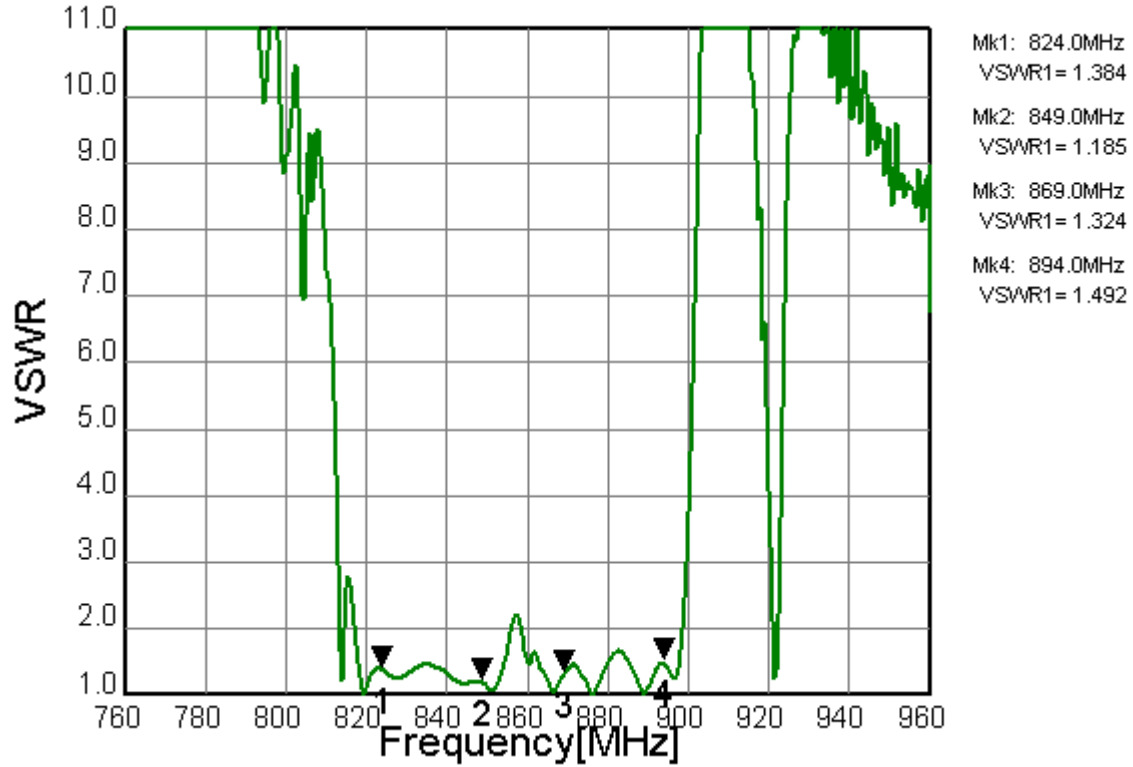


Figure 3-5. Electrical Characteristics

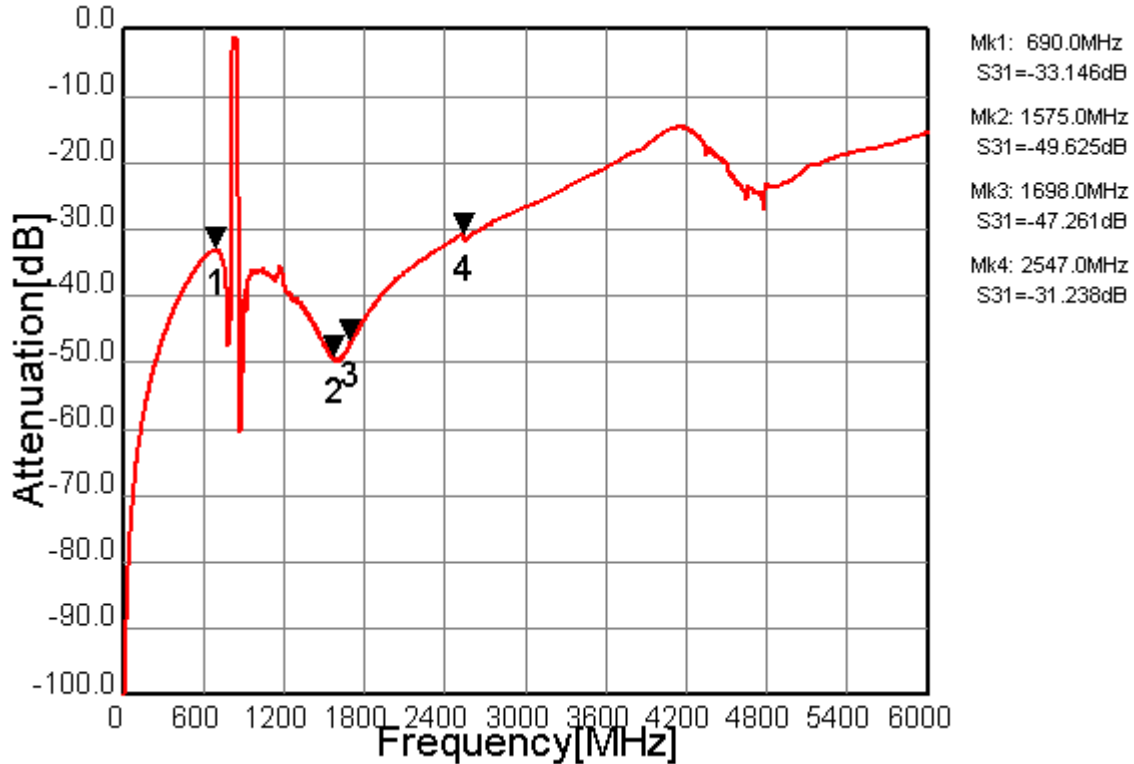


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Tx to Ant (Wide span)



Ant to Rx (Wide span)

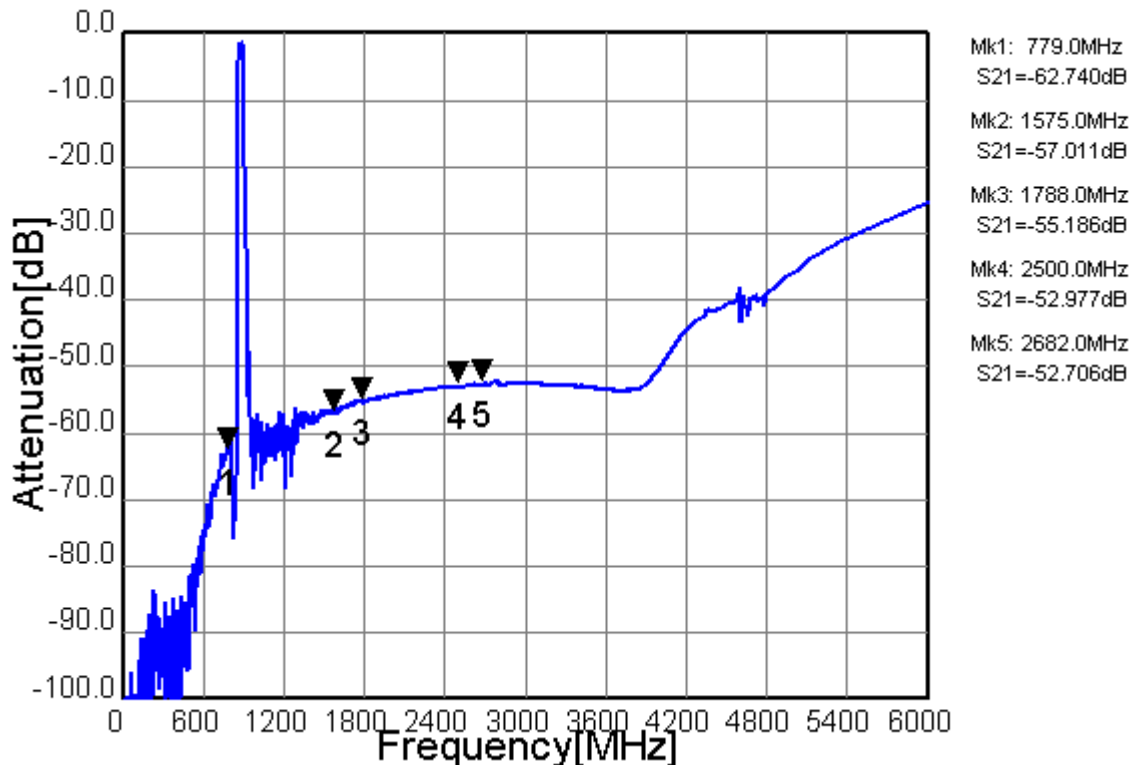


Figure 3-6. Electrical Characteristics