Pb-free

RoHS

MSL1

* Pb Free Part

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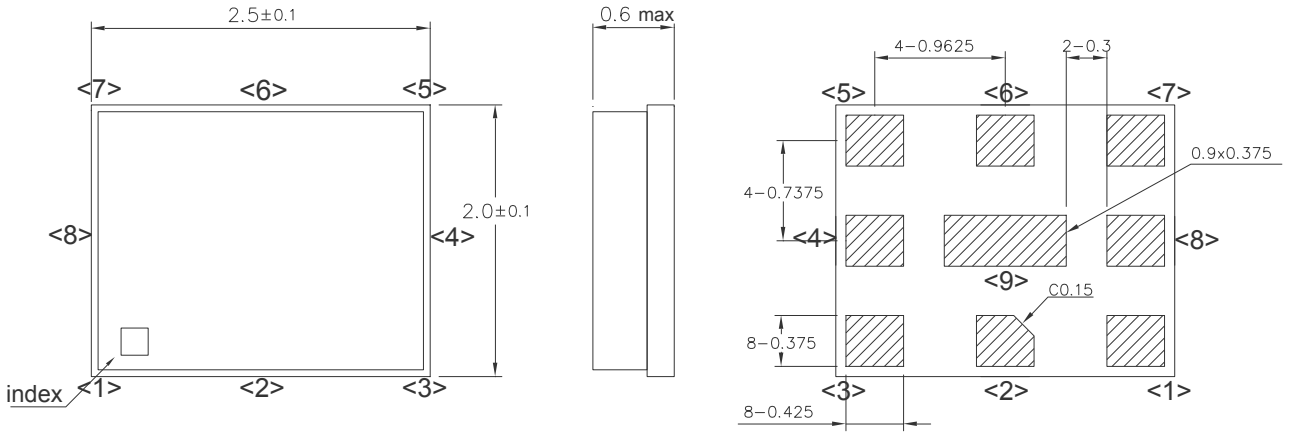
Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band V Duplexer	Date	March 31, 2010
Part Number	FAR-D5NG-881M50-M11Z	Version 3.1de	

Dimensions



< Top View > < Side View > < Bottom View >

Unit: mm

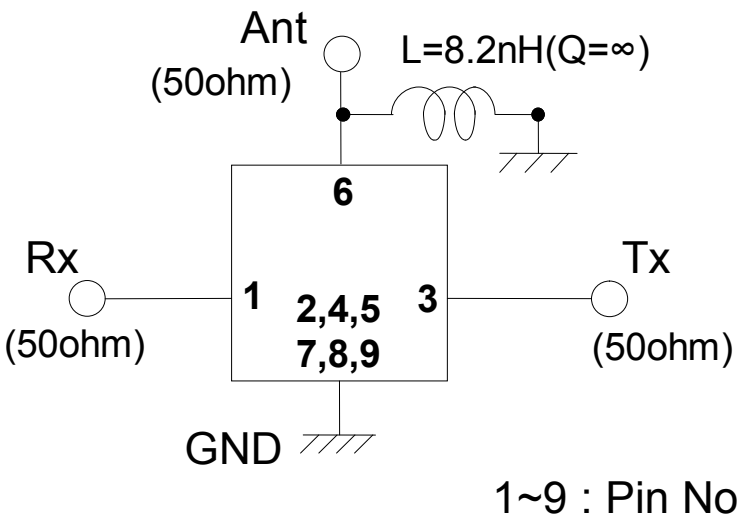
Pin Configuration

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

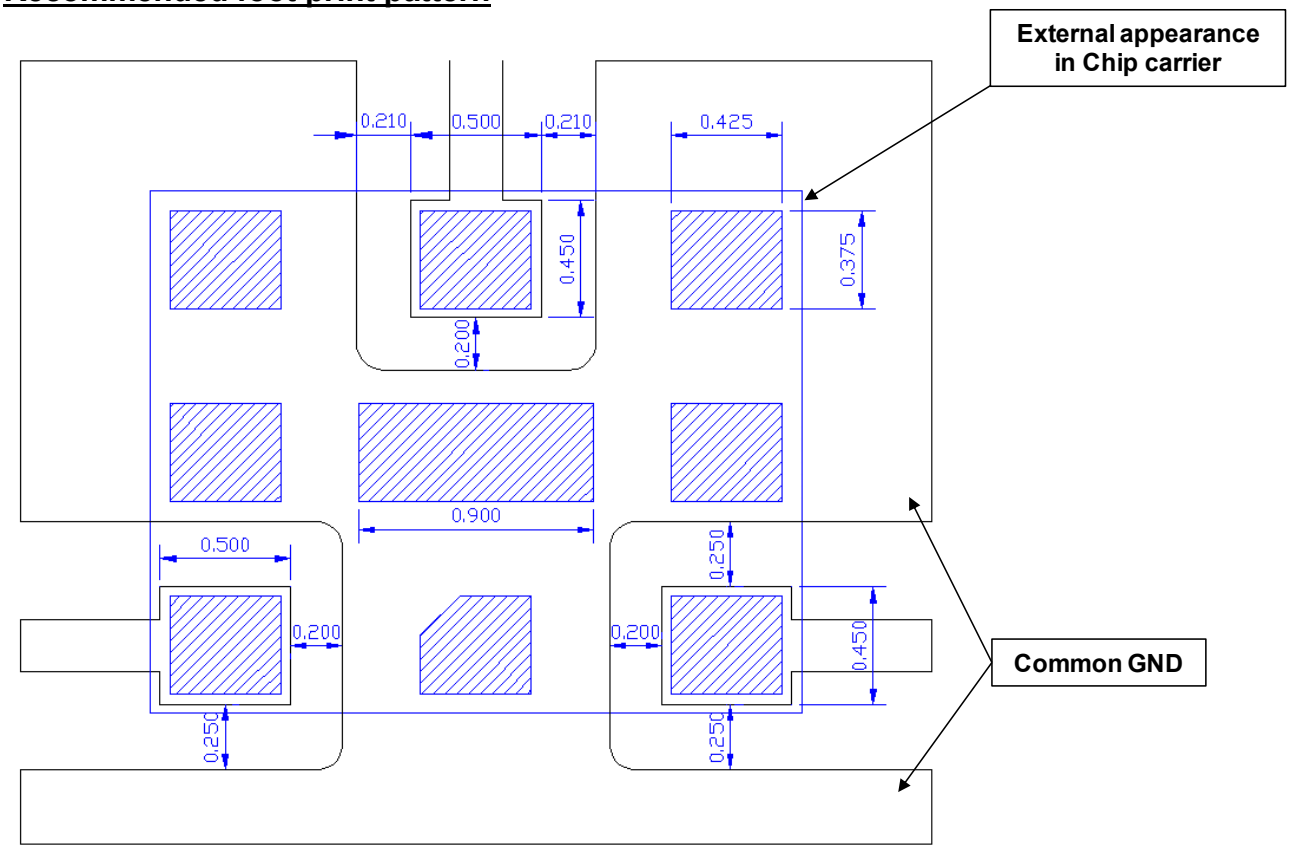
Figure 1. Dimensions and Pin assignment

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	

Evaluation Circuit



Recommended foot print pattern

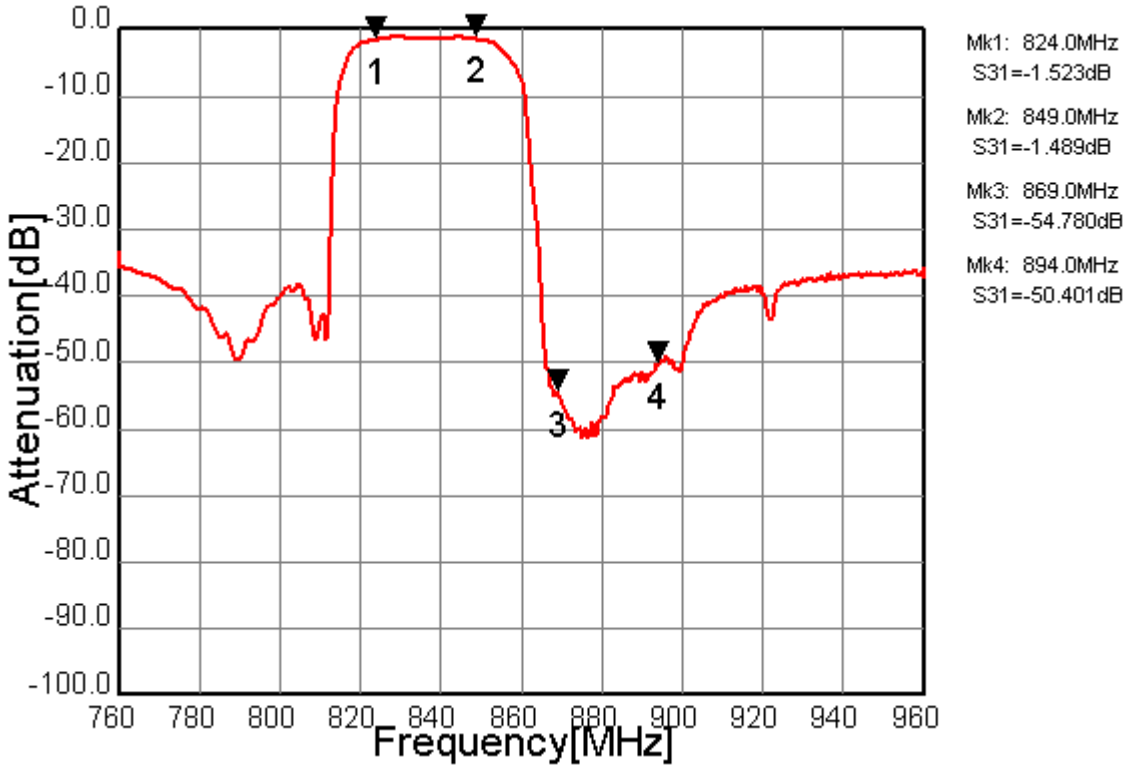


Unit: mm

Figure 2. Recommended foot print pattern

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	

Tx to Ant



Ant to Rx

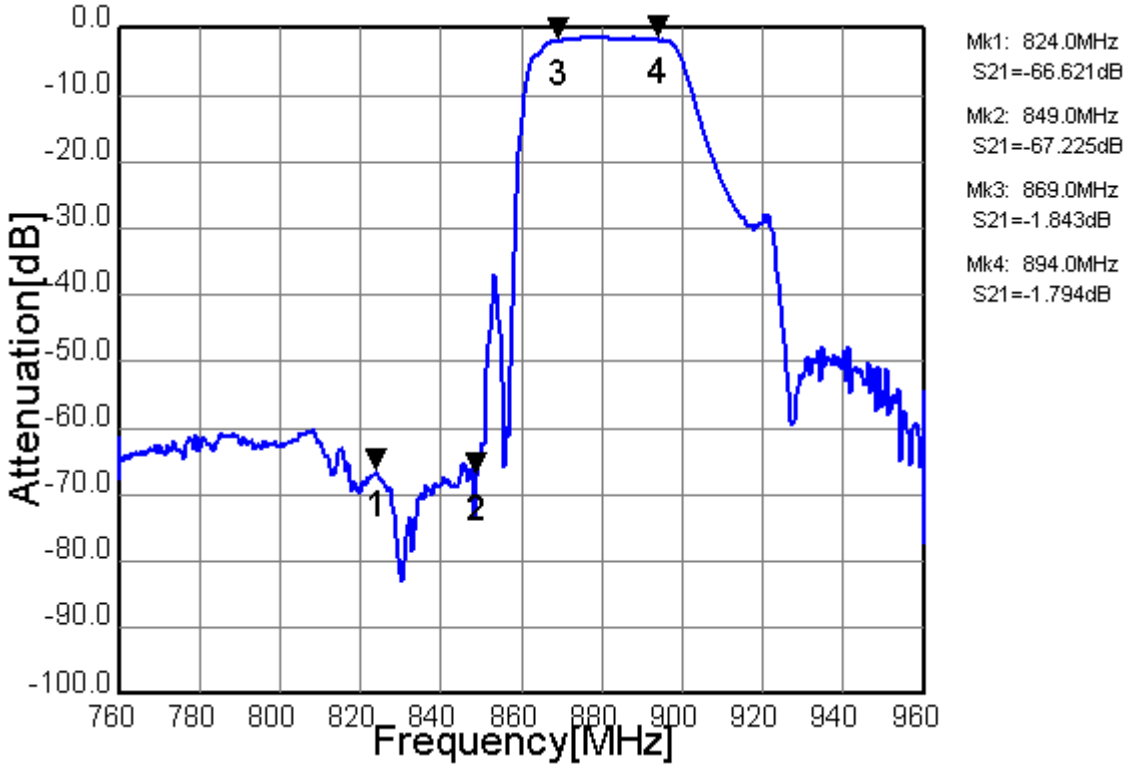
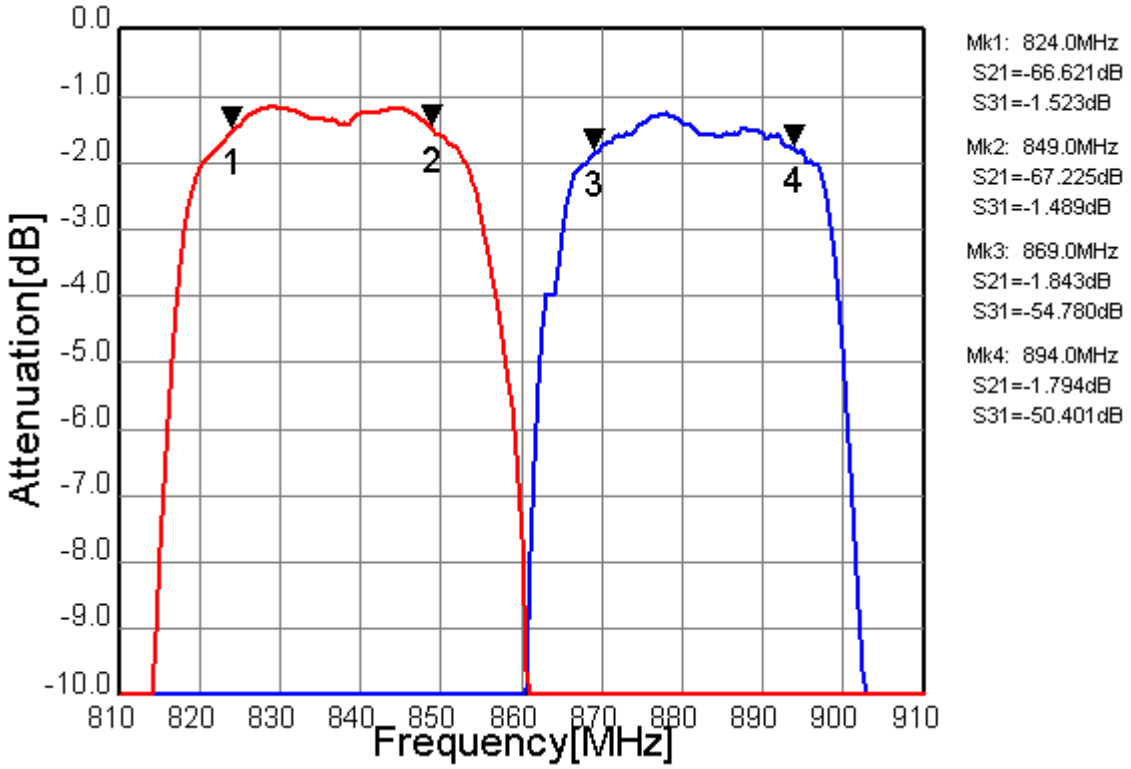


Figure 3-1. Electrical Characteristics

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

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	

Tx to Ant, Ant to Rx



Tx to Rx Isolation

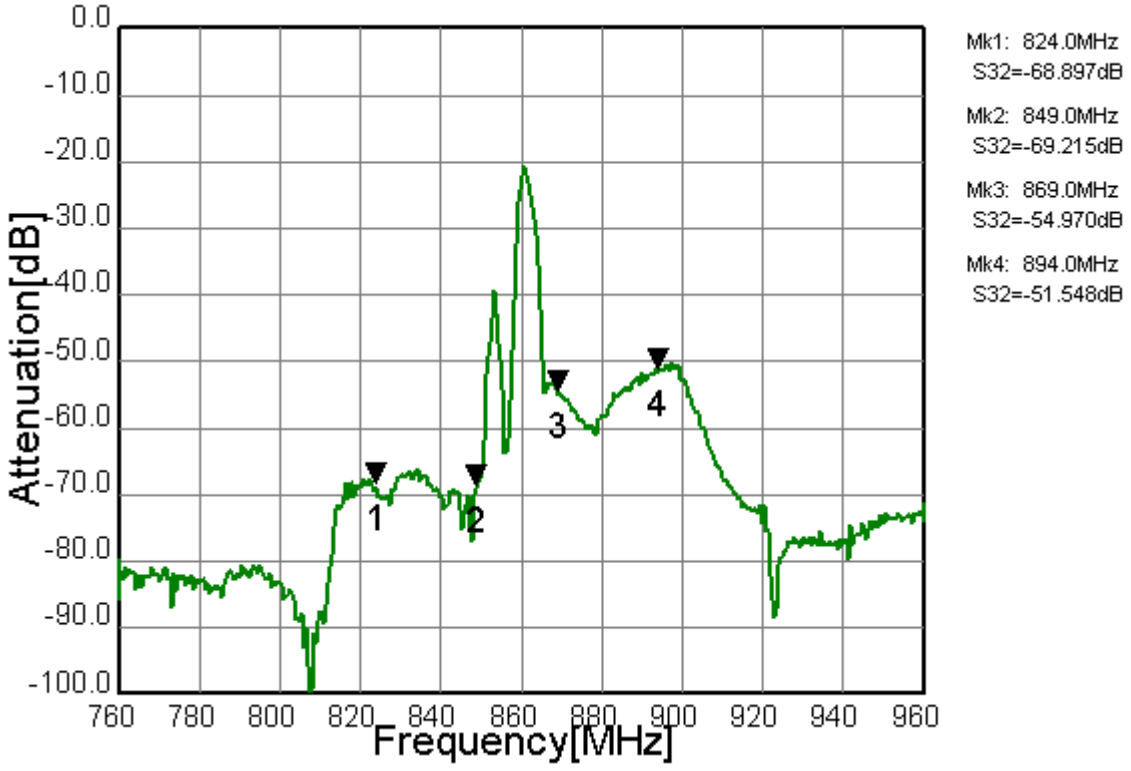


Figure 3-2. Electrical Characteristics

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

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	

Tx Port

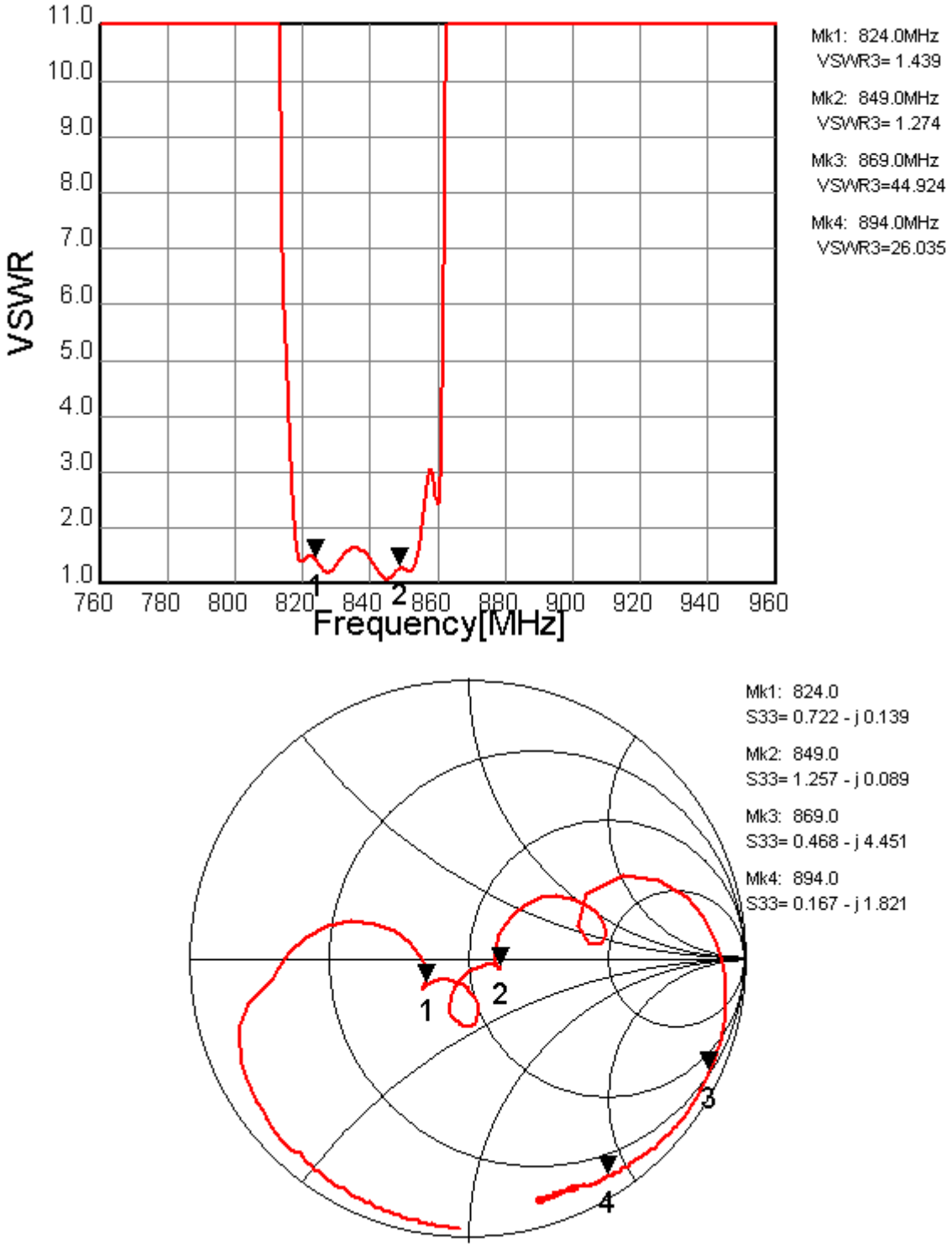


Figure 3-3. Electrical Characteristics

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	

Rx Port

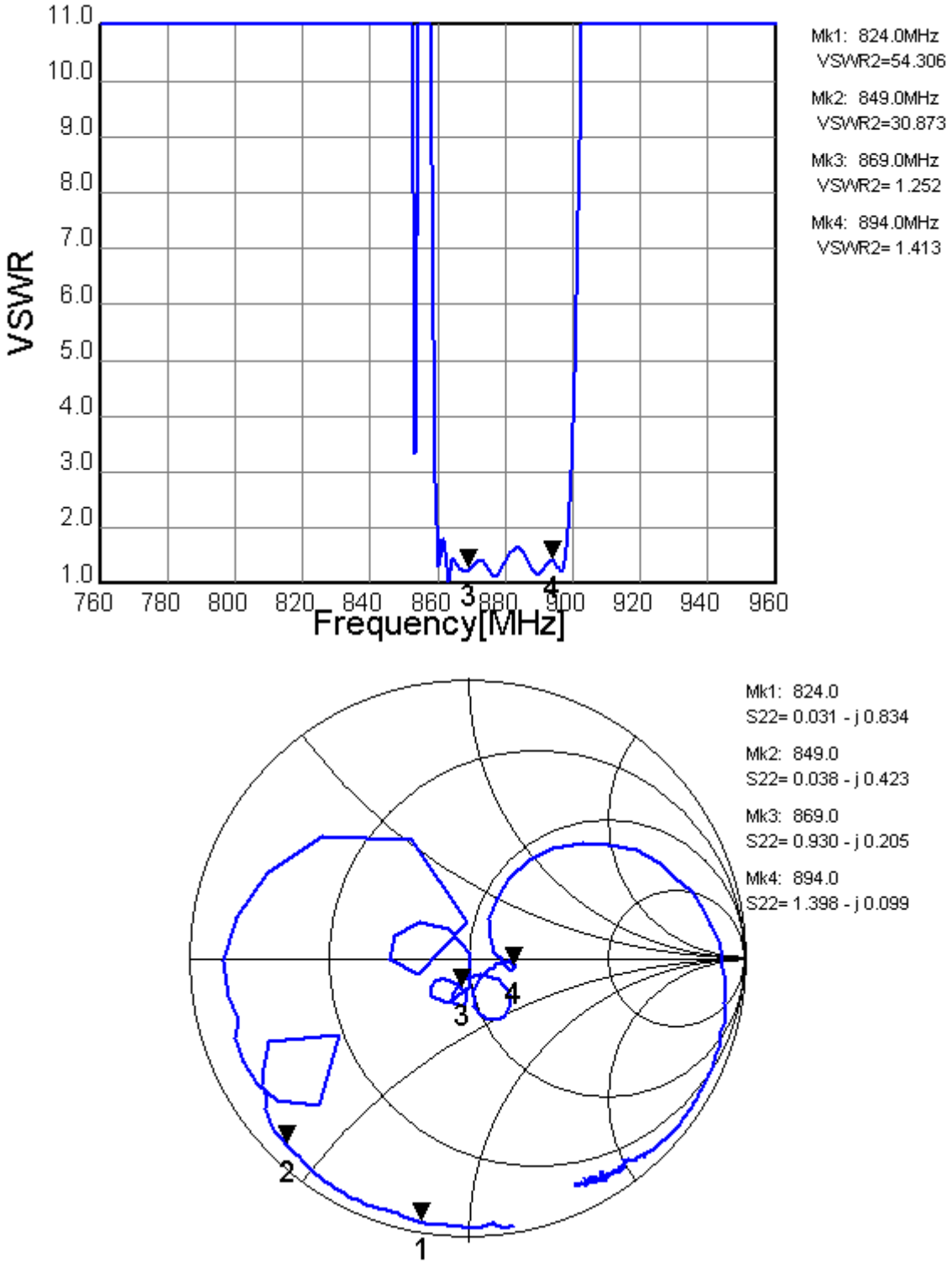


Figure 3-4. Electrical Characteristics

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	

Ant Port

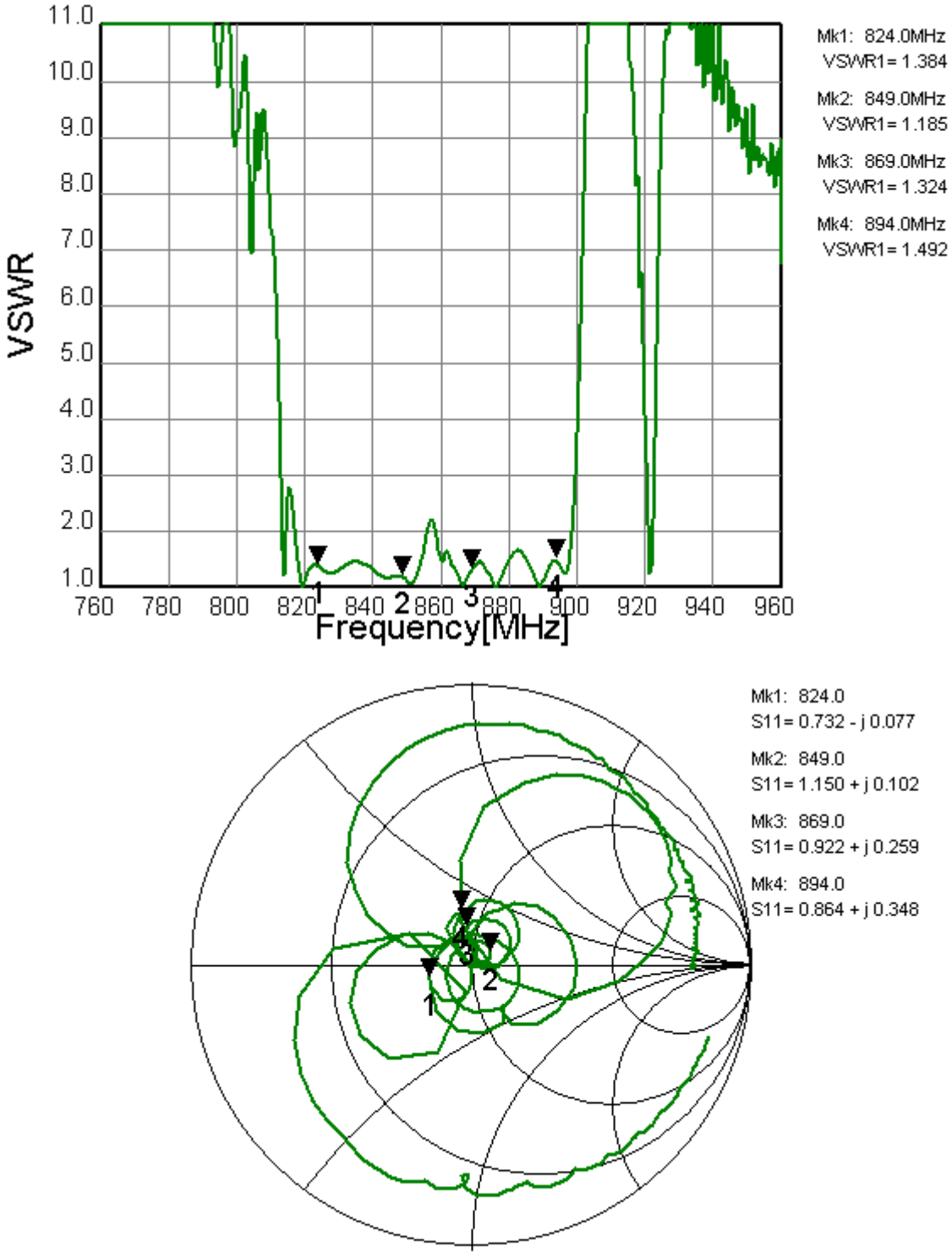
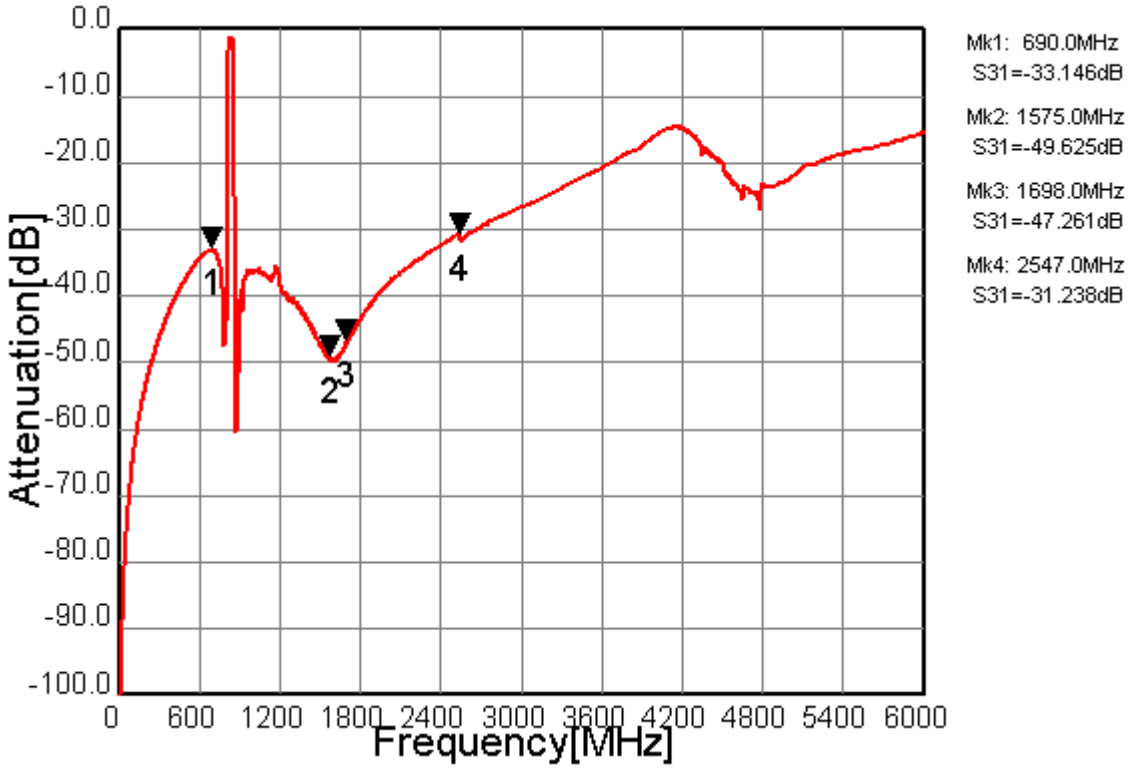


Figure 3-5. Electrical Characteristics

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	

Tx to Ant (Wide span)



Ant to Rx (Wide span)

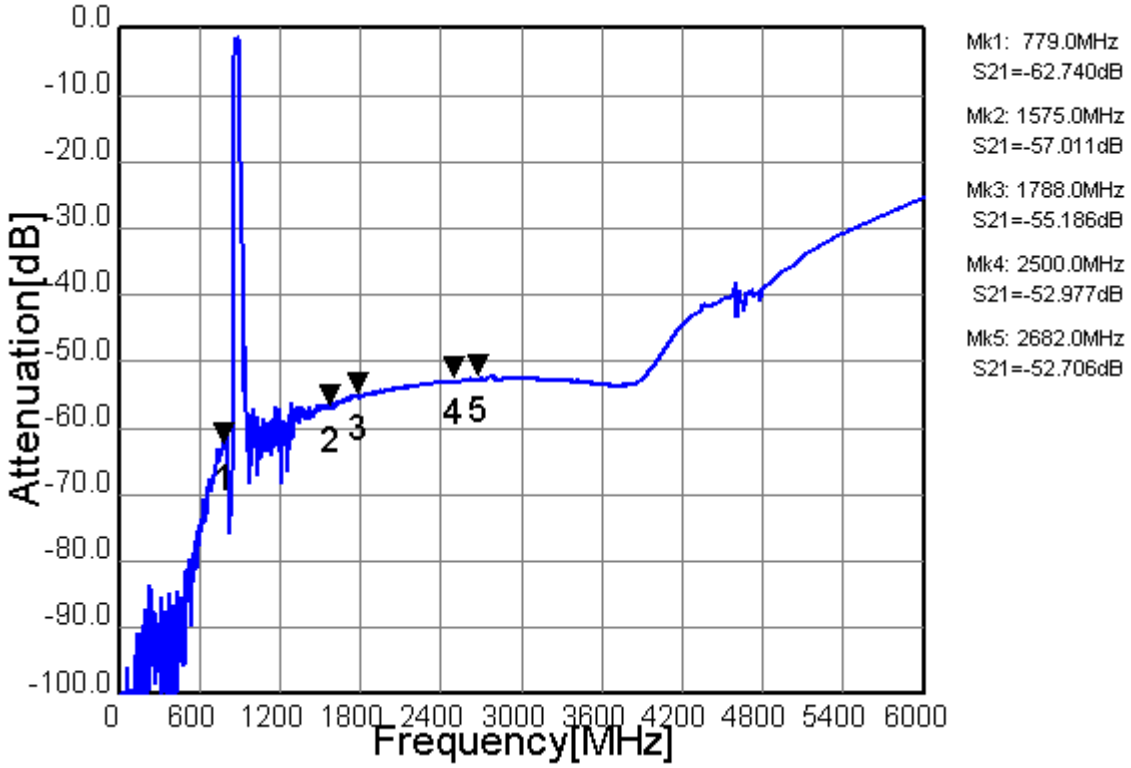


Figure 3-6. Electrical Characteristics