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-D5NE-881M50-P1A9	Version1.1cc	

Table 1-1. Electrical Specification

Item			Condition (MHz)	Specification			Unit	Remarks
				Min	Typ	Max		
Tx to ANT	Insertion loss		824~849	-	1.6	2.0	dB (*1)	
	Ripple		824~849	-	0.4	1.2	dB	
	VSWR	ANT	824~849	-	1.6	2.0	-	
		Tx		-	1.7	2.1	-	
	Input Power		824~849	+29dBm, Ta=+50°C, 50k h,CW			dBm	
	Absolute attenuation		779~804	30	42	-	dB	
			869~894	45	48	-	dB	
			1574~1577	43	49	-	dB	
			1648~1698	35	46	-	dB	
			2472~2547	24	34	-	dB	
ANT to Rx	Insertion loss		869~894	-	1.8	2.4	dB (*1)	
	Ripple		869~894	-	0.4	1.5	dB	
	Phase balance		869~894	-10	-1/+1	+10	deg	
	Amplitude balance		869~894	-1.0	-0.1/+0.1	+1.0	dB	
	VSWR	Ant	869~894	-	1.6	2.1	-	
		Rx		-	1.7	2.0	-	
	Absolute attenuation		824~849	50	58	-	dB	
			1738~1788	40	66	-	dB	
			1850~1910	40	65	-	dB	
			1920~1980	40	65	-	dB	
			2400~2500	40	64	-	dB	
			3476~3576	40	64	-	dB	
Tx to Rx	Isolation		824~849	54	57	-	dB	
			869~894	48	51	-	dB	
Terminating Impedance			Tx port	50			Ohm	Single-ended
			Rx port	100			Ohm	Differential
			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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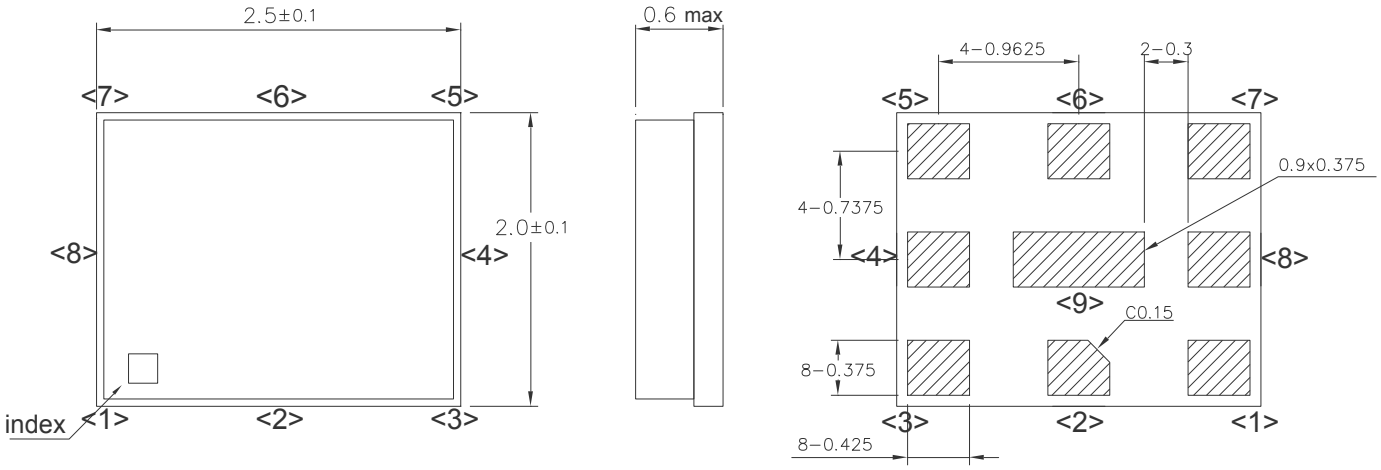
Dimensions



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

Unit: mm

Pin Configuration

Pin No.	Pin name	Description
1	Rx	Receiver Pin (balanced)
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	Rx	Receiver Pin (balanced)
9	GND	Ground Pin

Figure 1. Dimensions and Pin assignment

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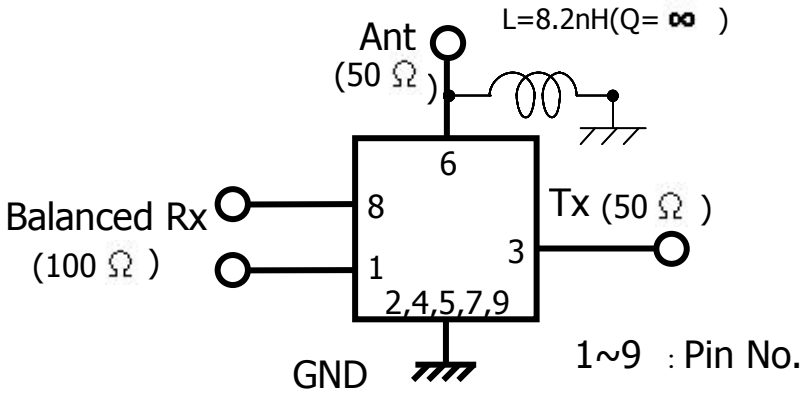
Part Number	FAR-D5NE-881M50-P1A9	Version1.1cc	

Evaluation Circuit



Recommended foot print pattern

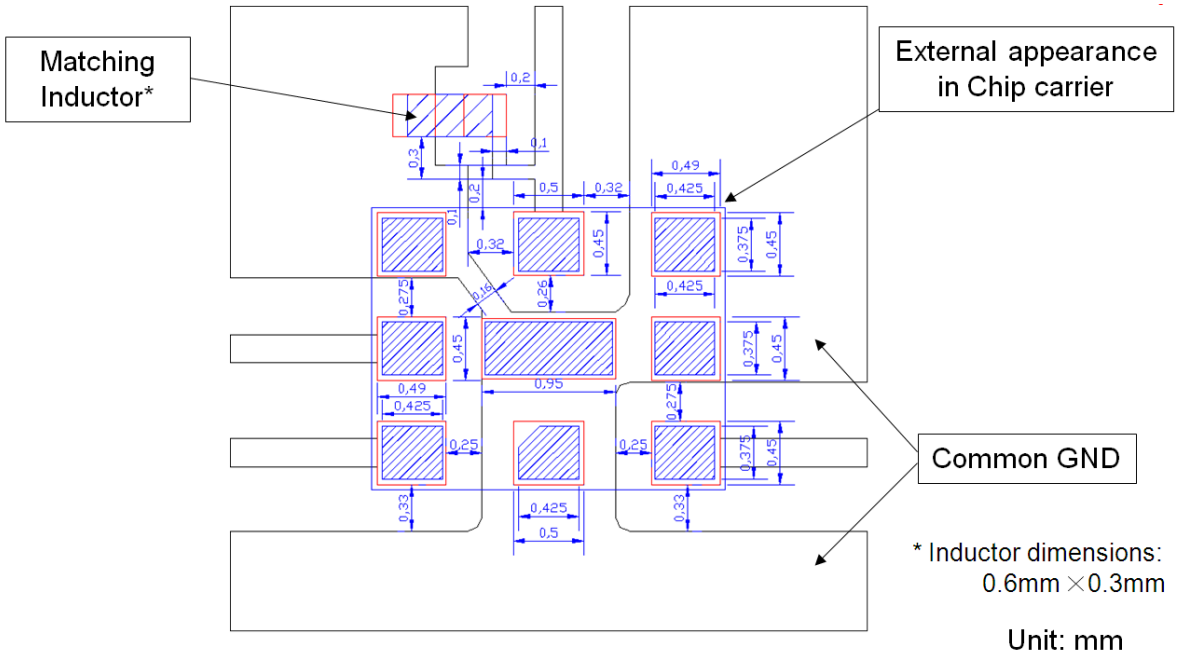


Figure 2. Recommended foot print pattern

Pb-free

RoHS MSL1

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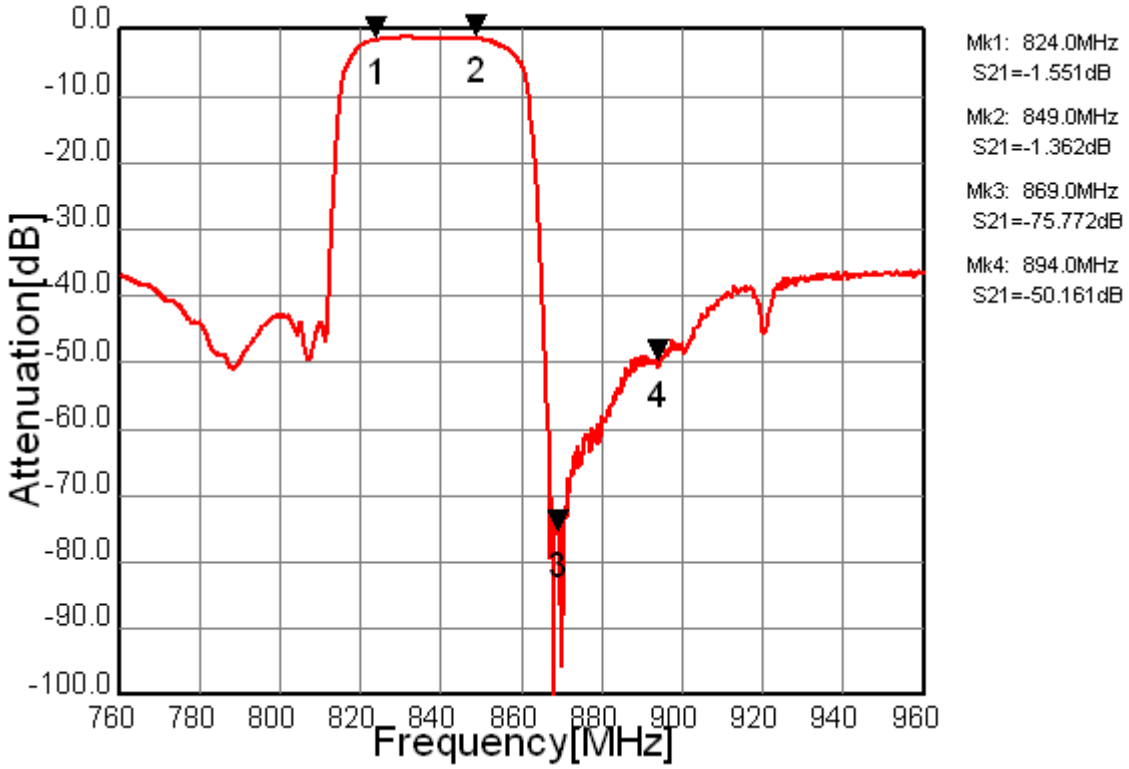
System	Band V Duplexer	Date	March 31, 2010
Part Number	FAR-D5NE-881M50-P1A9	Version1.1cc	

Tx to Ant



Ant to Rx

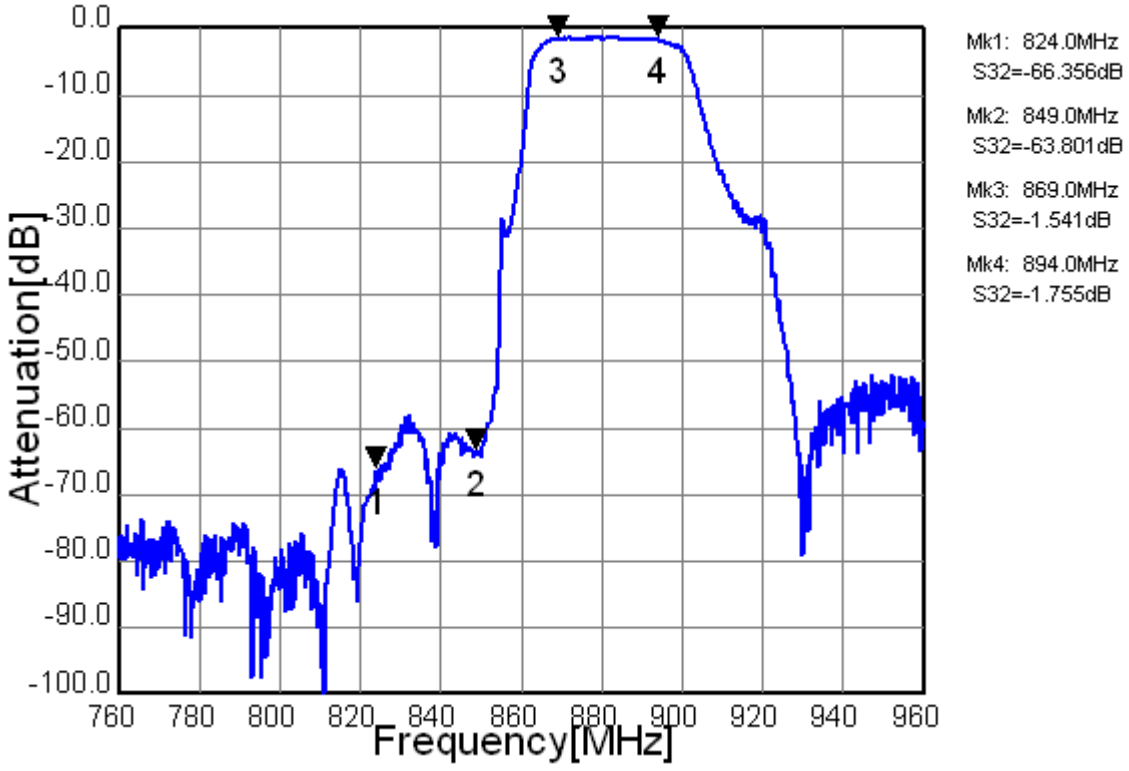


Figure 3-1. Electrical Characteristics

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

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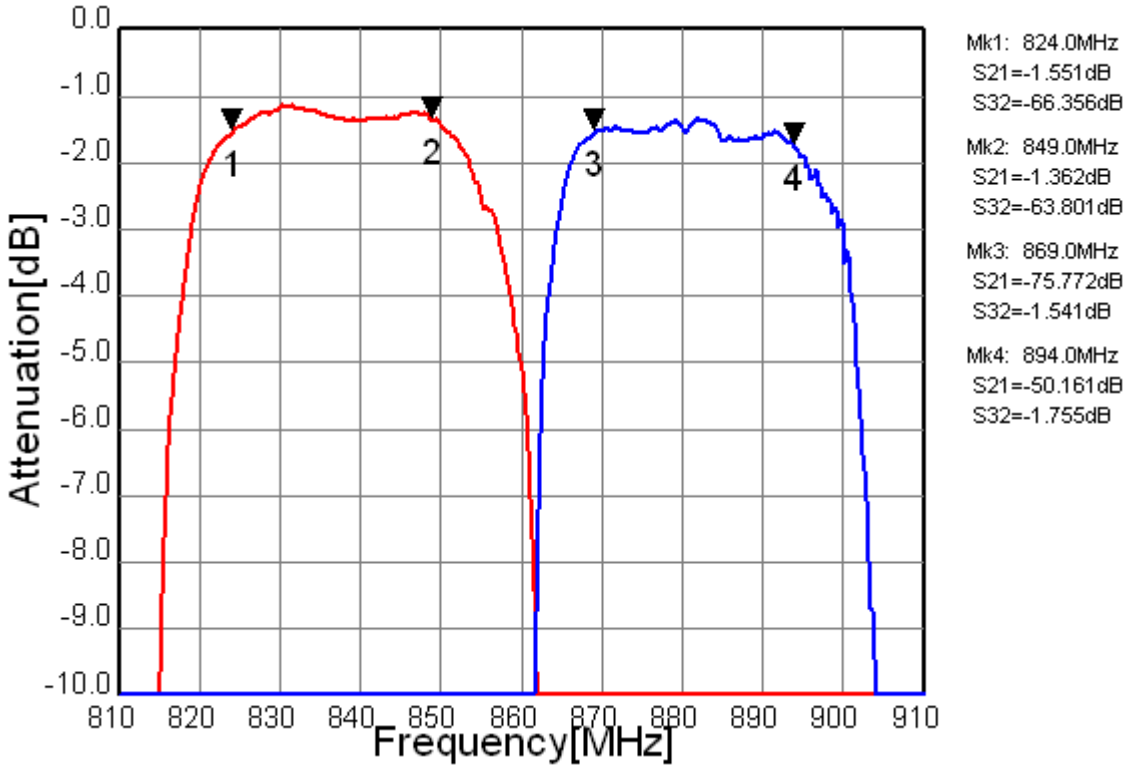
RoHS MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band V Duplexer	Date	March 31, 2010
Part Number	FAR-D5NE-881M50-P1A9	Version1.1cc	

Tx to Ant, Ant to Rx



Tx to Rx Isolation

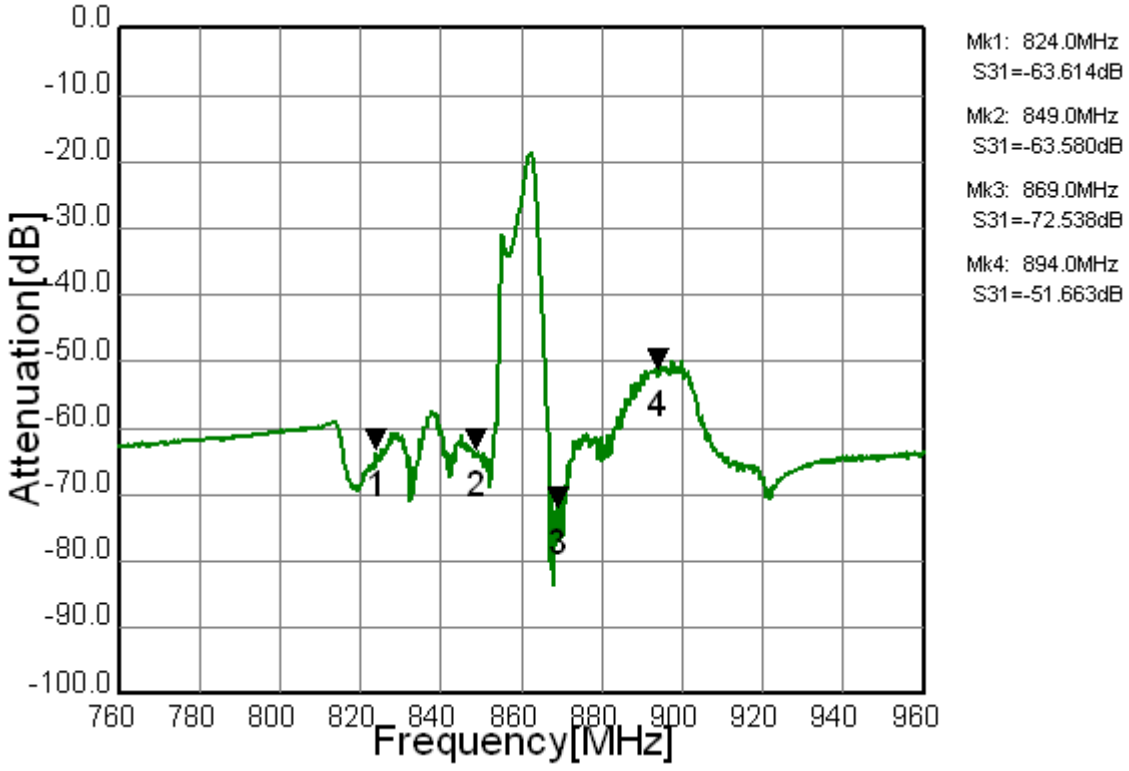
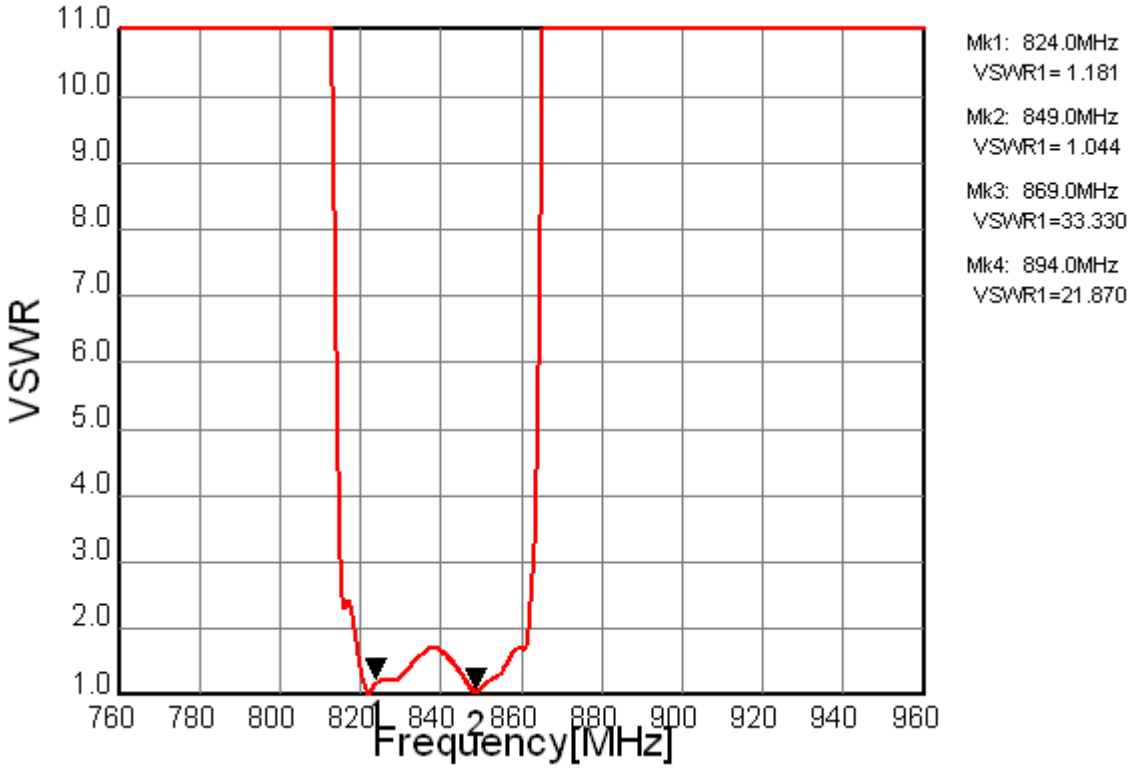


Figure 3-2. Electrical Characteristics

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-D5NE-881M50-P1A9	Version1.1cc	

Tx Port



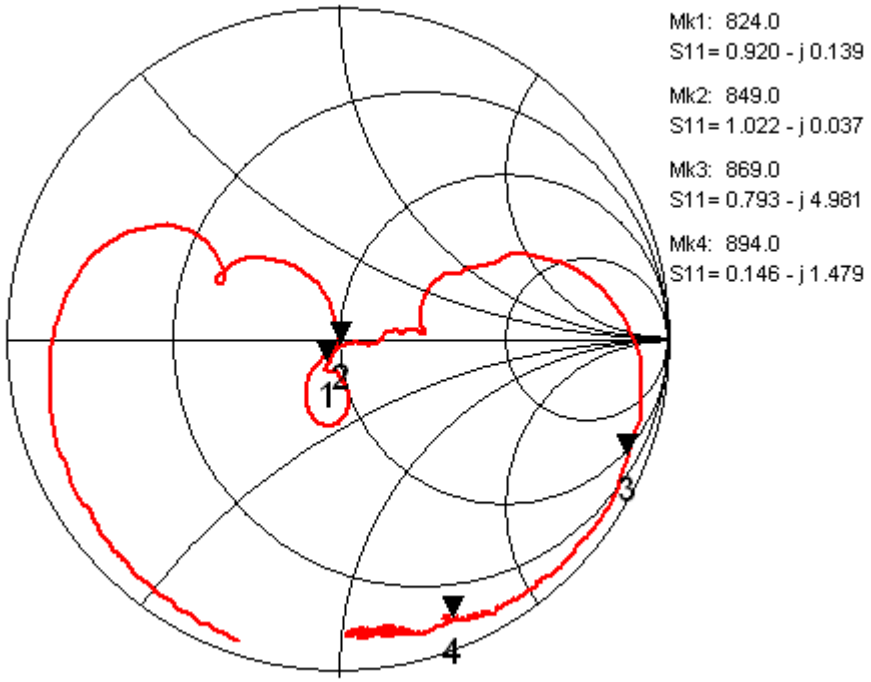
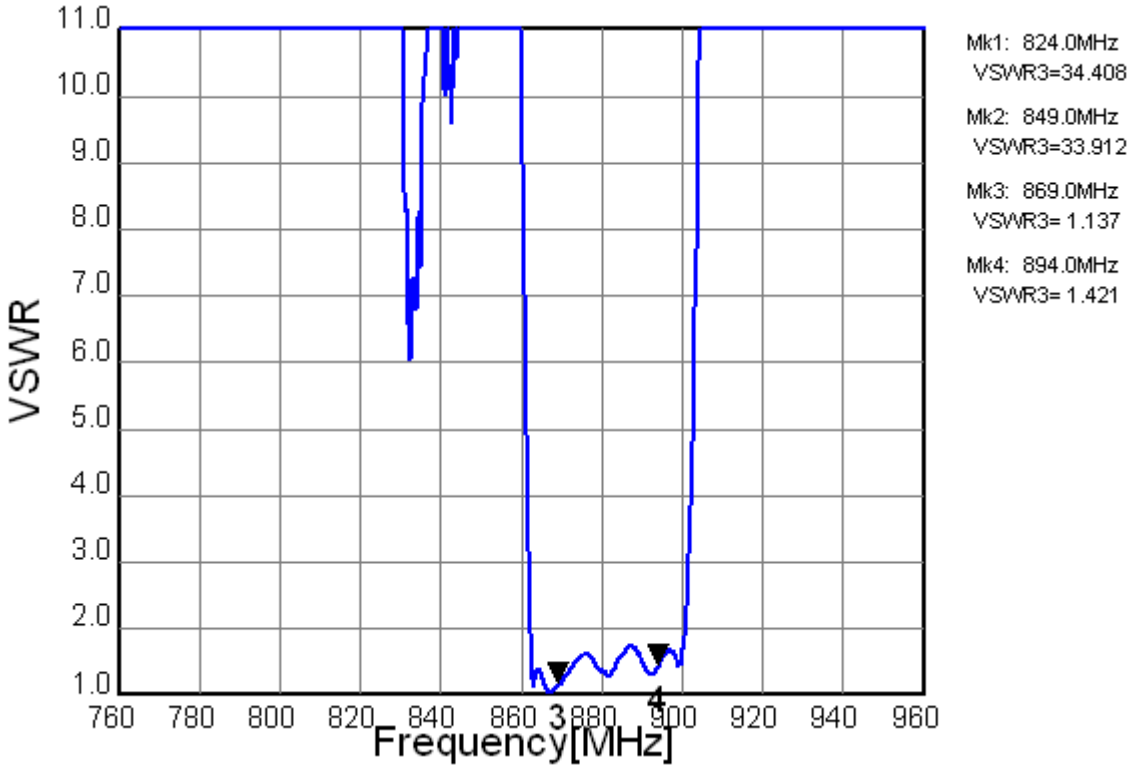


Figure 3-3. Electrical Characteristics

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band V Duplexer	Date	March 31, 2010
Part Number	FAR-D5NE-881M50-P1A9	Version1.1cc	

Rx Port



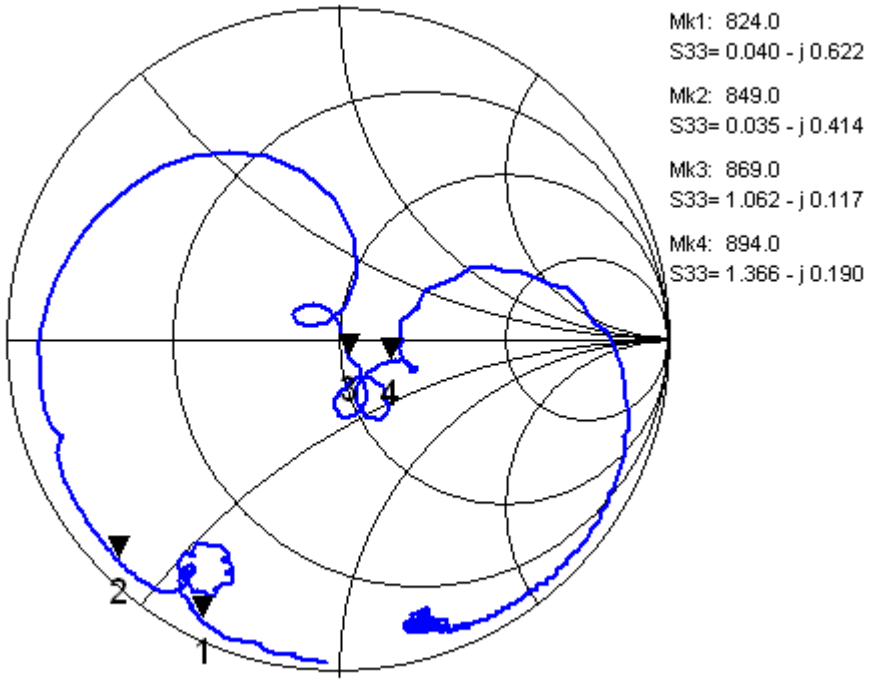
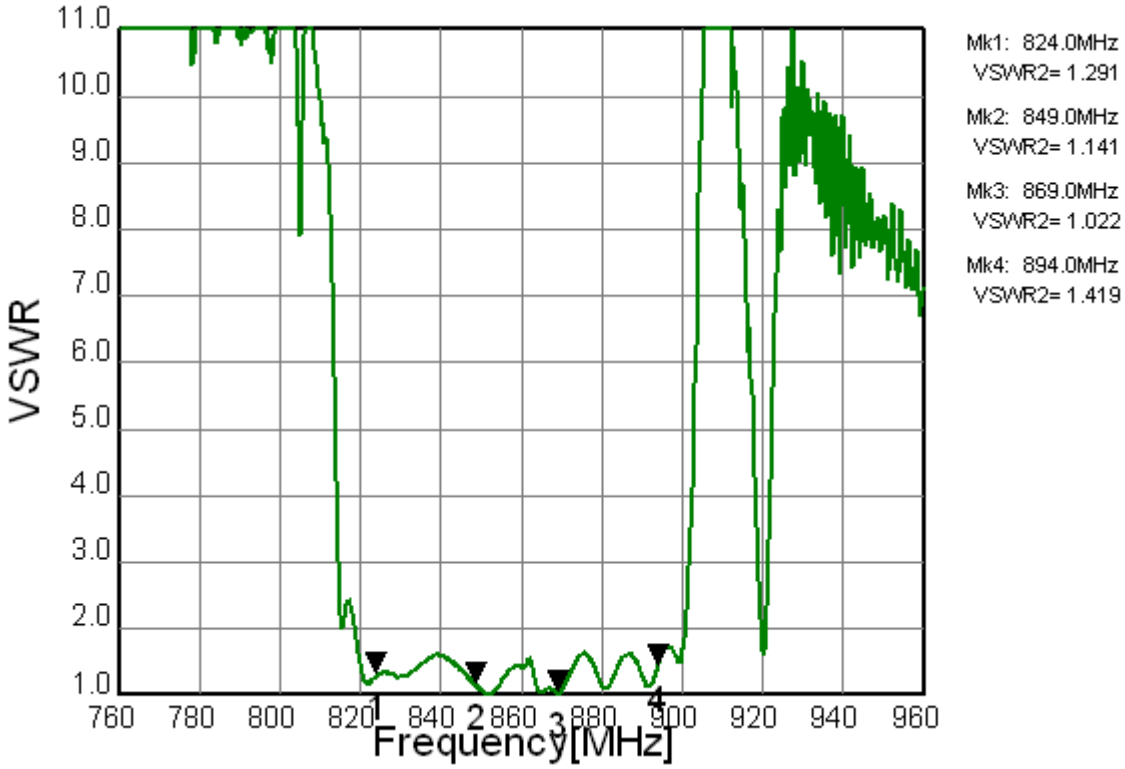


Figure 3-4. Electrical Characteristics

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band V Duplexer	Date	March 31, 2010
Part Number	FAR-D5NE-881M50-P1A9	Version1.1cc	

Ant Port



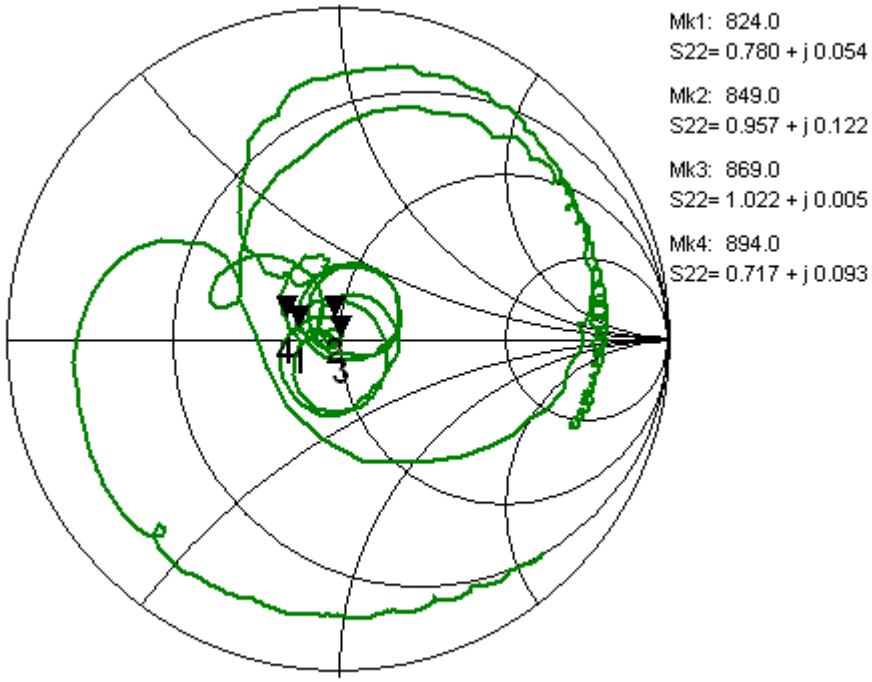
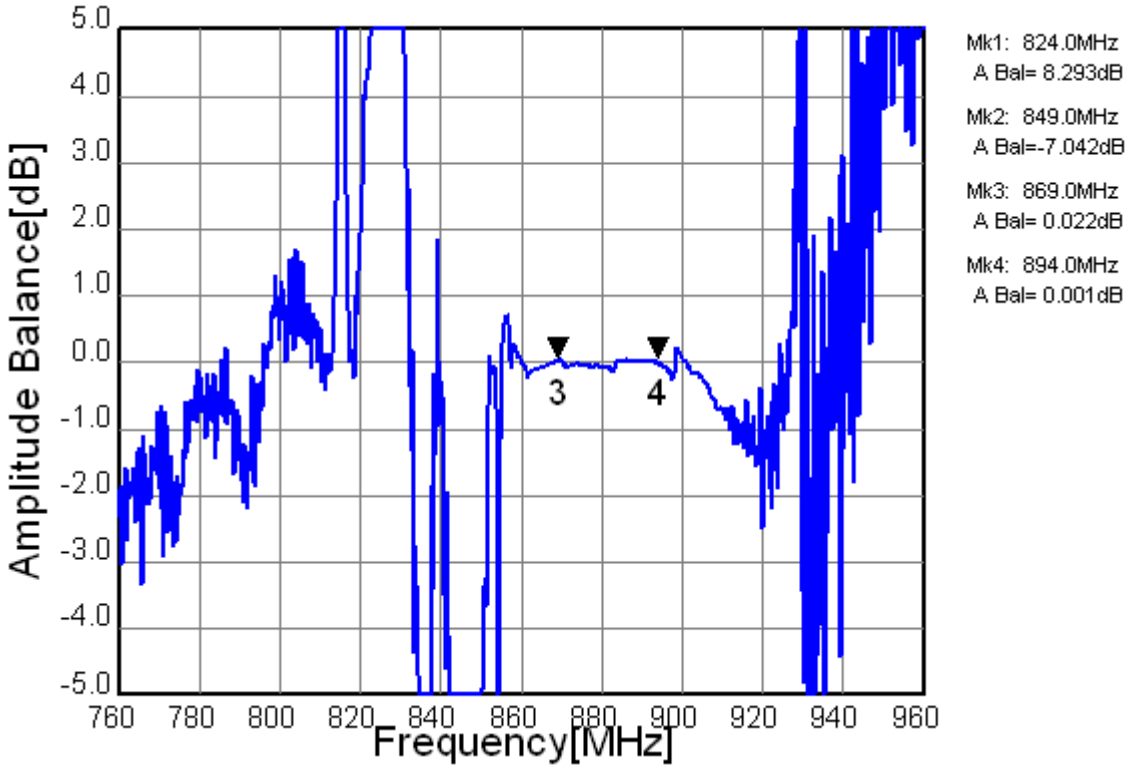


Figure 3-5. Electrical Characteristics

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band V Duplexer	Date	March 31, 2010
Part Number	FAR-D5NE-881M50-P1A9	Version1.1cc	

Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

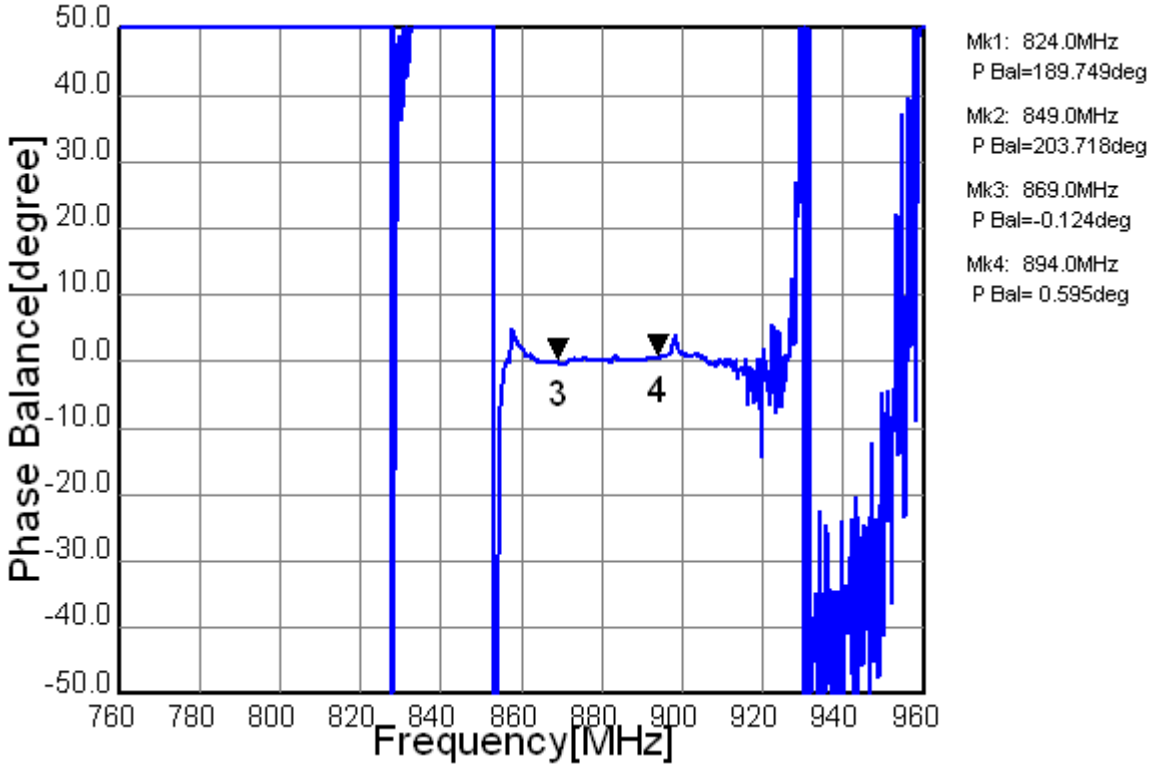
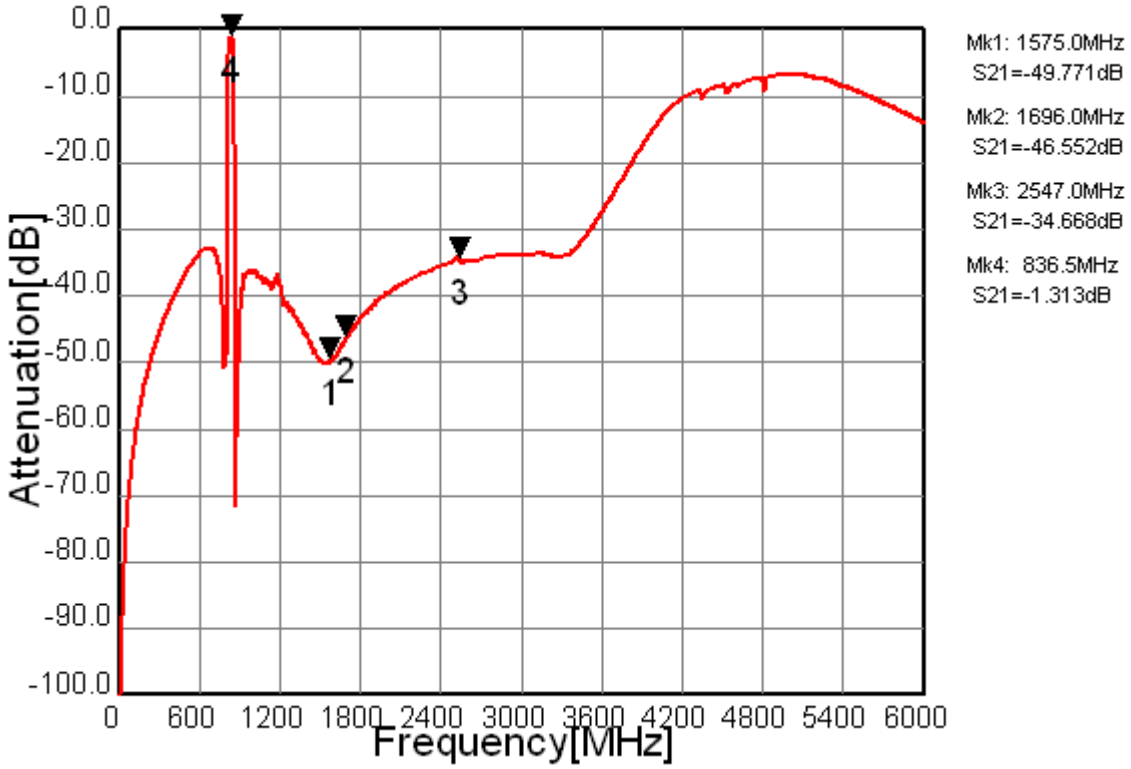


Figure 3-6. Electrical Characteristics

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band V Duplexer	Date	March 31, 2010
Part Number	FAR-D5NE-881M50-P1A9	Version1.1cc	

Tx to Ant (Wide span)



Ant to Rx (Wide span)

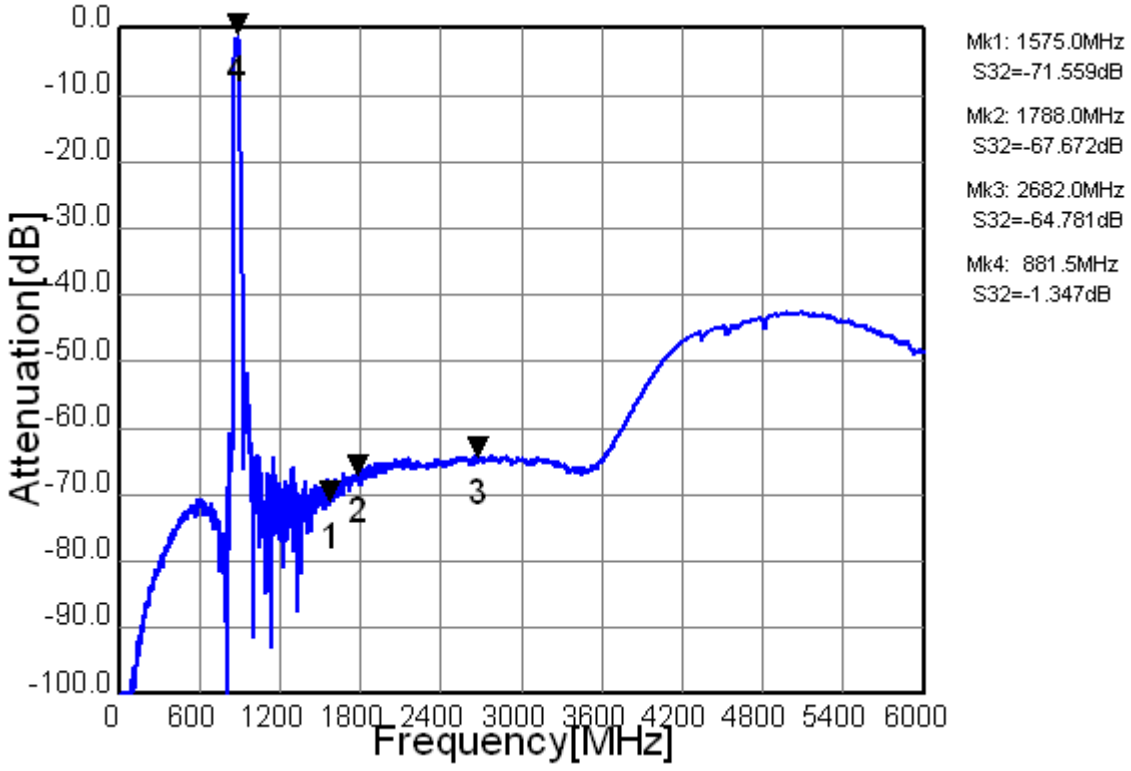


Figure 3-7. Electrical Characteristics