Pb-free

RoHS

MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

Table 1. Electrical Specification

Item			Condition (MHz)	Specification			Unit	Remarks
				Min	Typ	Max		
Tx to ANT	Insertion loss		1920~1980	-	1.4	1.65	dB(*1)	
	Ripple		1920~1980	-	0.4	0.8	dB	
	VSWR	Ant	1920~1980	-	1.4	2.0	-	
		Tx		-	1.6	2.0		
	Input Power		1920~1980	+29dBm, +50degC 50kh, CW			dBm	
	Absolute attenuation		1570~1580	30	32	-	dB	
			2110~2170	40	43	-	dB	
			2400~2500	28	33	-	dB	
			3840~3960	10	17	-	dB	
			5760~5940	5	13	-	dB	
ANT to Rx	Insertion loss		2110~2170	-	1.7	2.0	dB(*1)	
	Ripple		2110~2170	-	0.4	1.0	dB	
	VSWR	Ant	2110~2170	-	1.5	2.0	-	
		Rx	2110~2170	-	1.6	2.0		
	Absolute attenuation		1920~1980	48	52	-	dB	
			2400~2500	27	33	-	dB	
Tx to Rx	Isolation		1920~1980	51	54	-	dB	
			2110~2170	43	47	-	dB	
Terminating Impedance			Tx port	50			Ohm	Single-ended
			Rx port	50			Ohm	Single-ended
			Ant port	50//2.7nH			Ohm	Single-ended
Operating Temperature				-20 to +85			°C	
Device size (L typ. x W typ. x H max.)				2.5 x 2.0 x 0.65			mm	

(*1) Specification of insertion loss excludes loss that comes from the test board. (Approximately 0.15dB)

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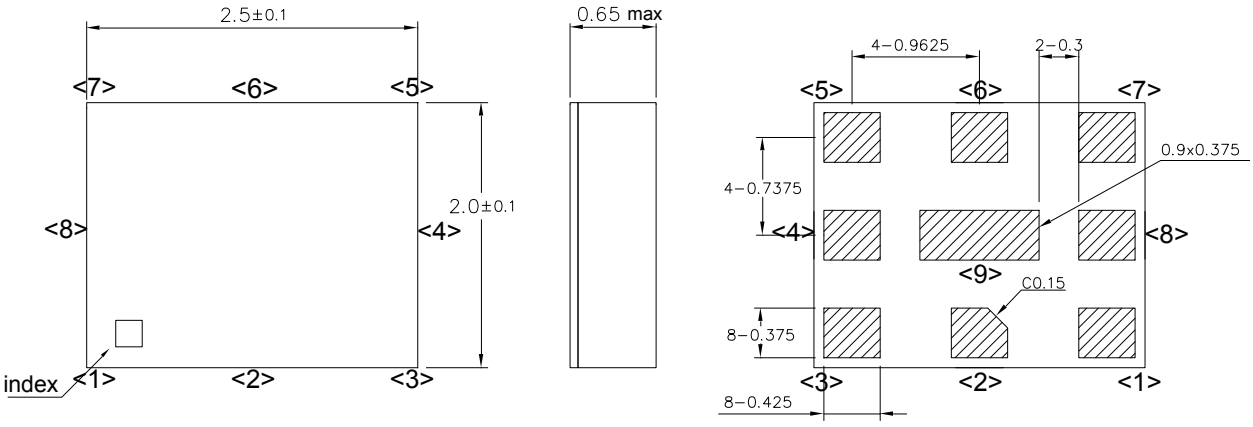
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

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

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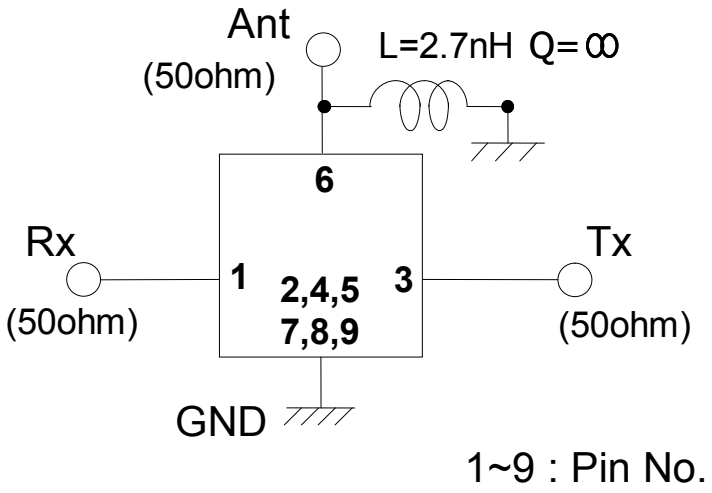
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

Evaluation Circuit



Recommended foot print pattern

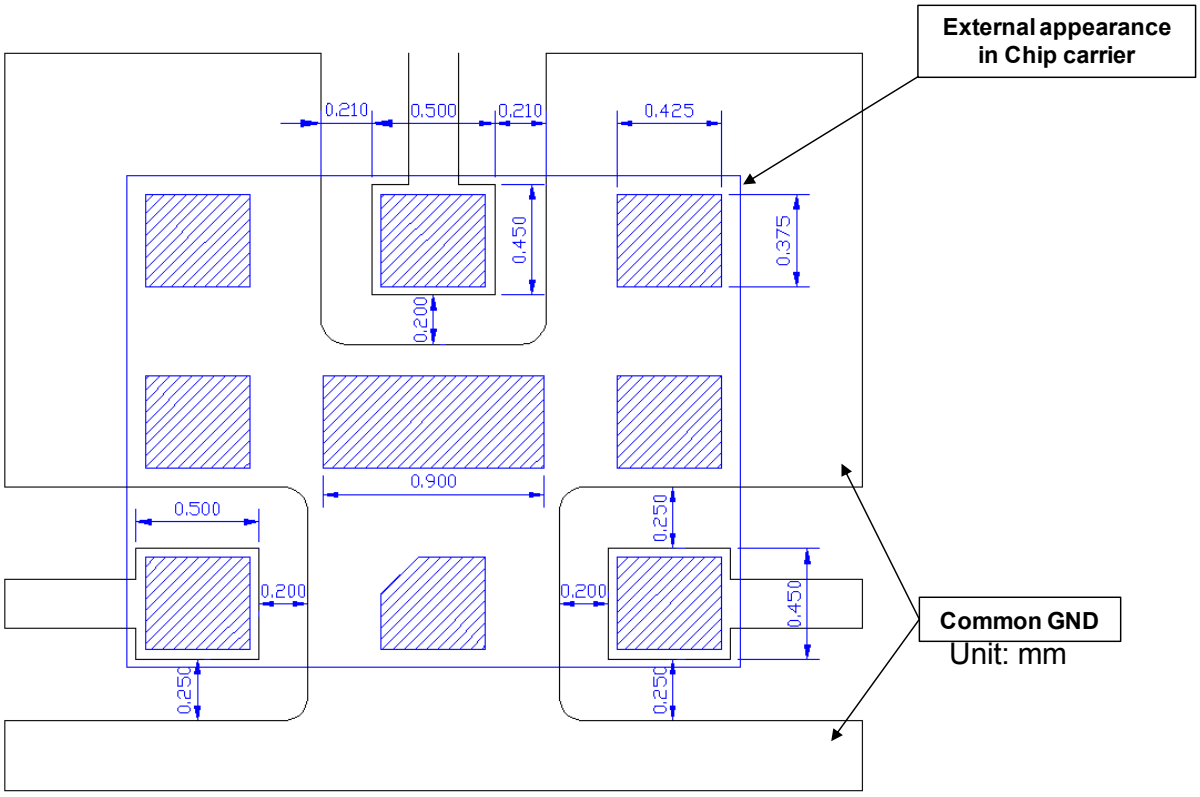


Figure 2. Recommended foot print pattern

Tx to Ant

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Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

Ant to Rx

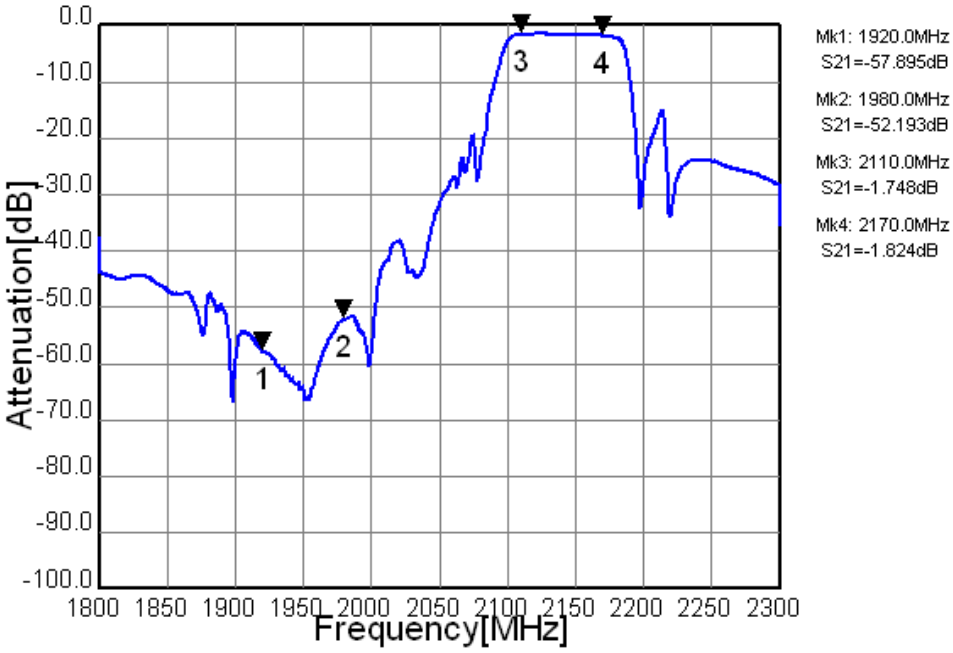

Figure 3-1. Electrical Characteristics

These data **include** loss that comes from the test board. (Approximately 0.15dB)

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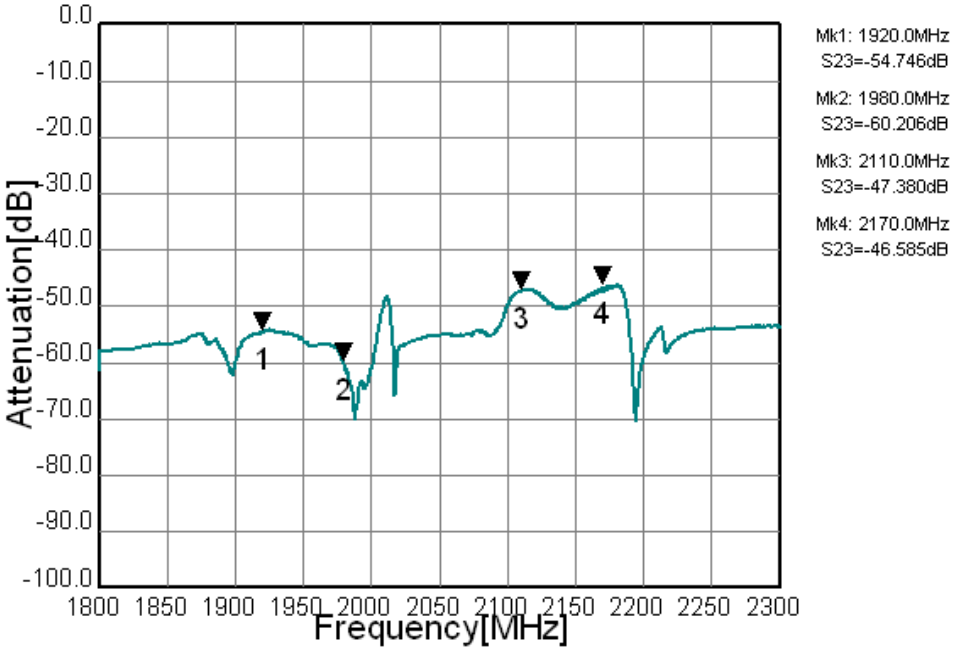
Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

Tx to Ant, Ant to Rx



Tx to Rx Isolation

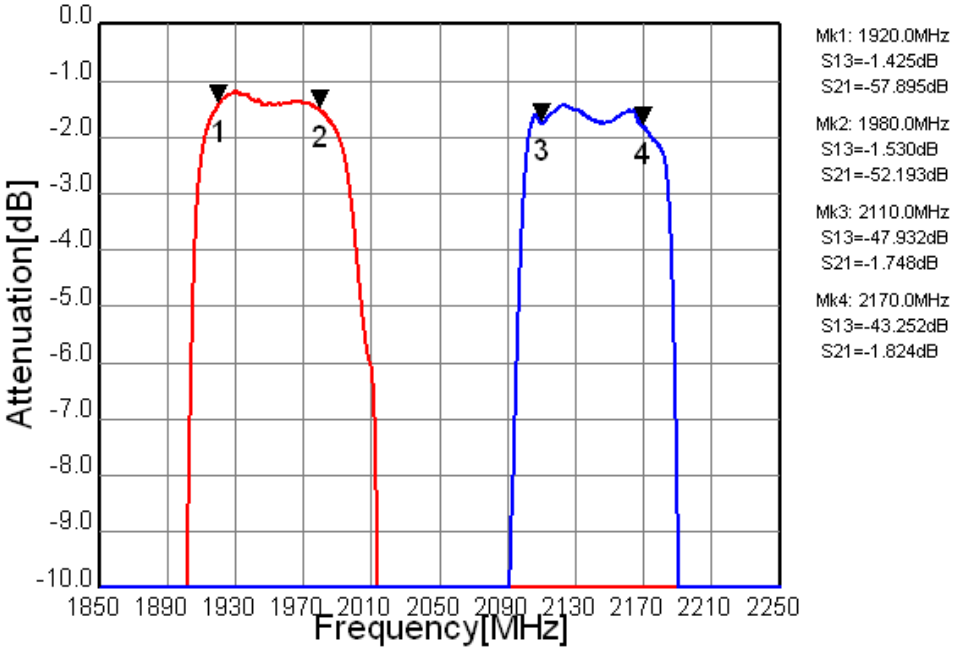


Figure 3-2. Electrical Characteristics

These data **include** loss that comes from the test board. (Approximately 0.15dB)

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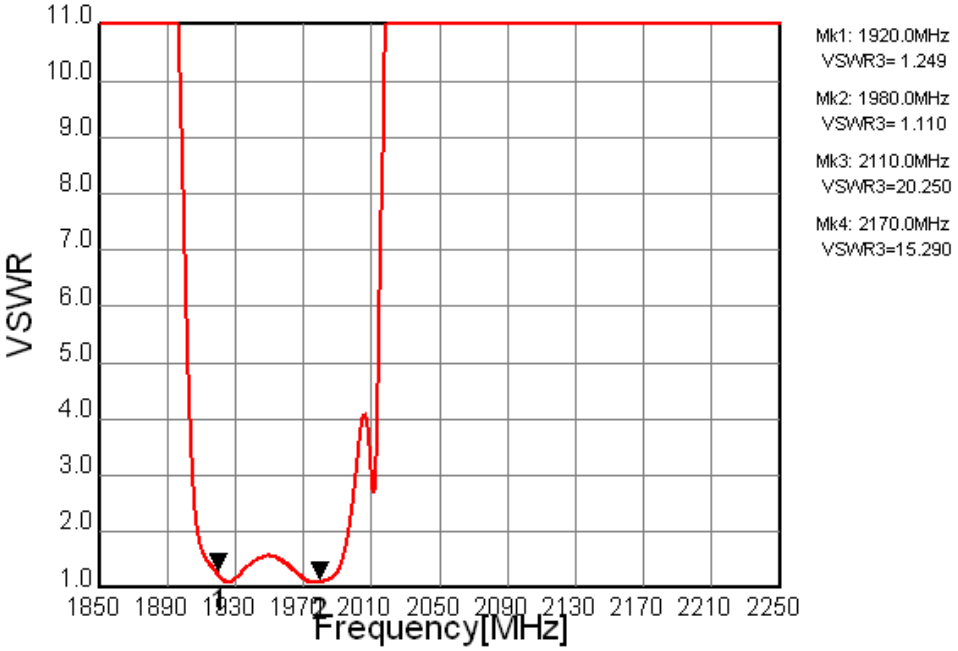
Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

Tx Port



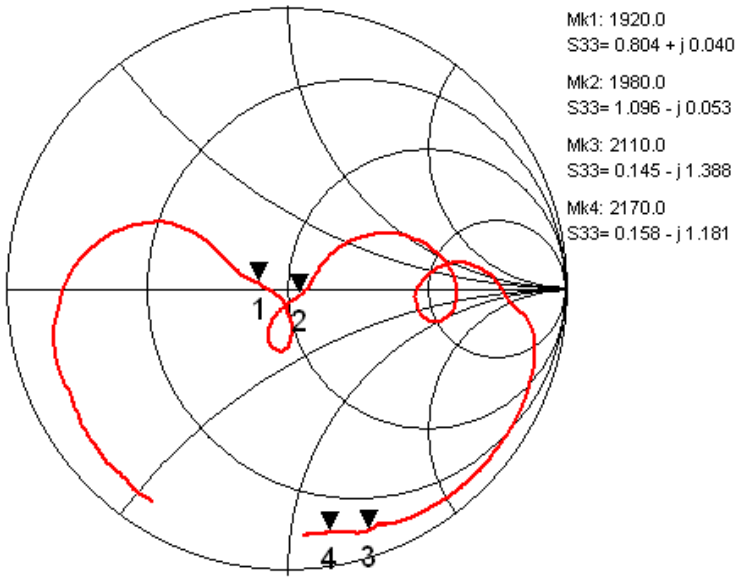


Figure 3-3. Electrical Characteristics

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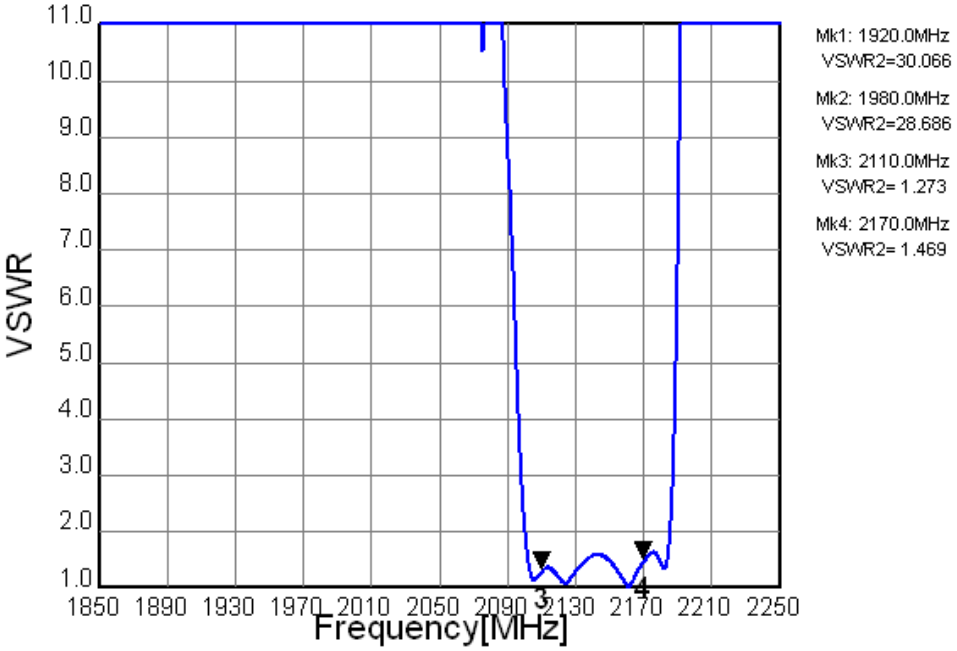
Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

Rx Port



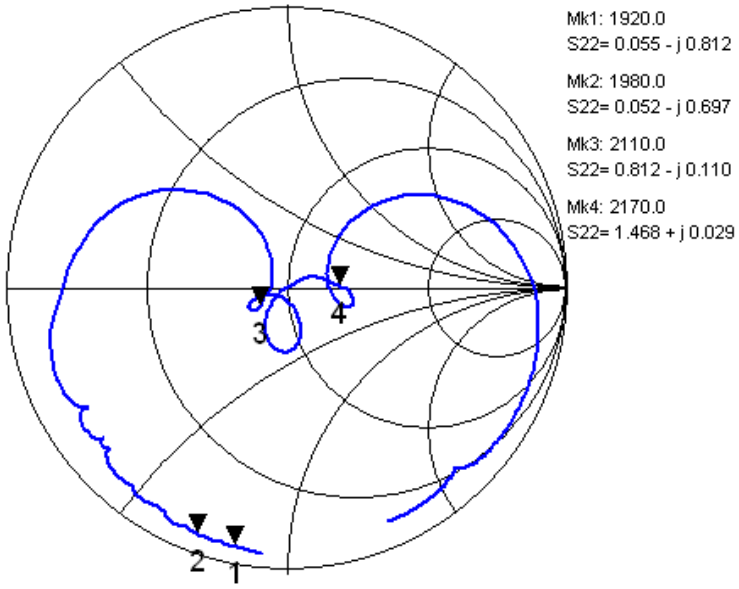


Figure 3-4. Electrical Characteristics

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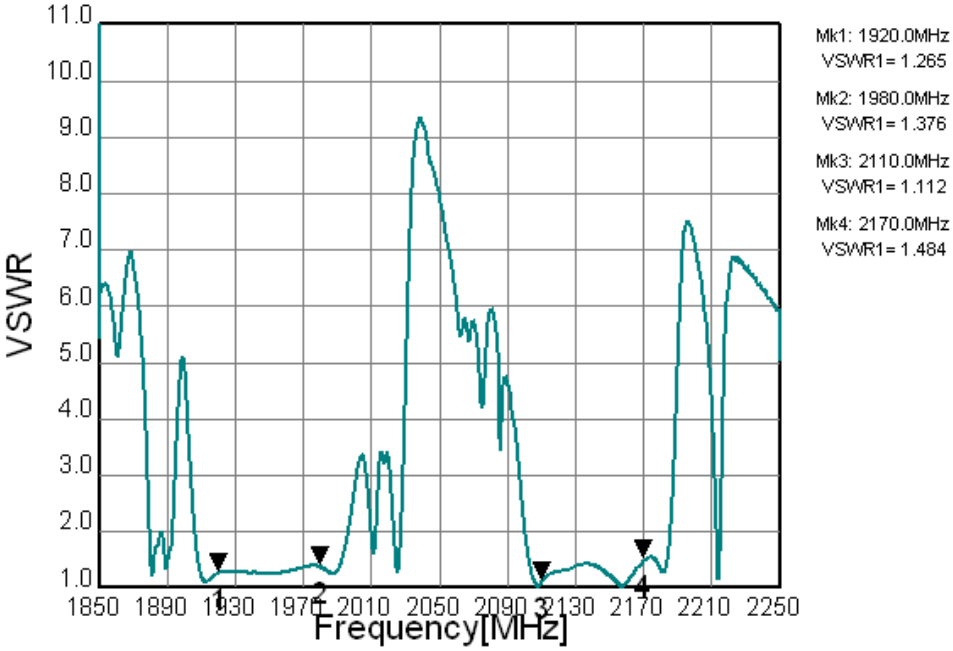
Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

Ant Port



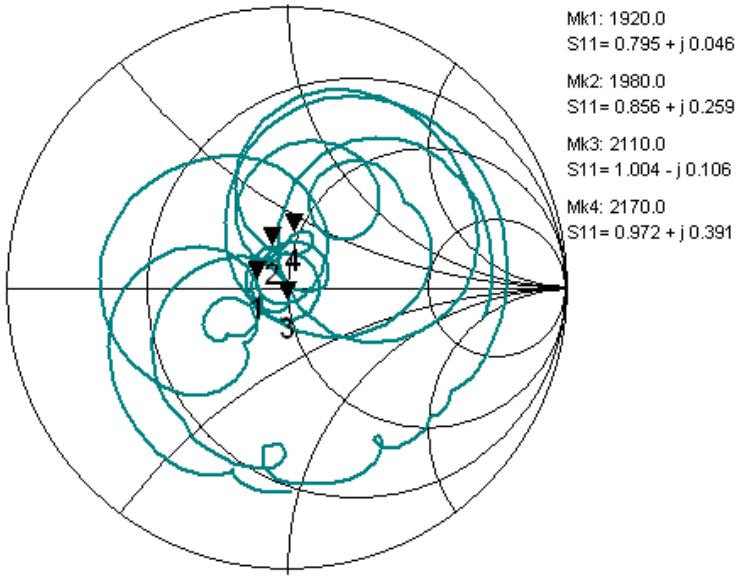


Figure 3-5. Electrical Characteristics

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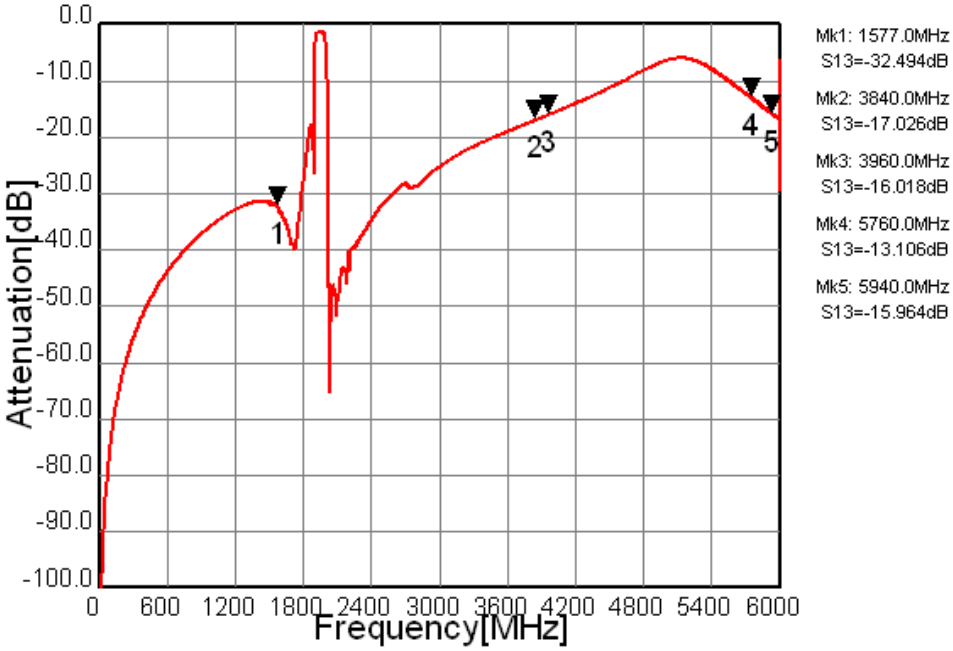
Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JG-2G1400-D3FZ	Version 4.0fg	

Tx to Ant (Wide span)



Ant to Rx (Wide span)

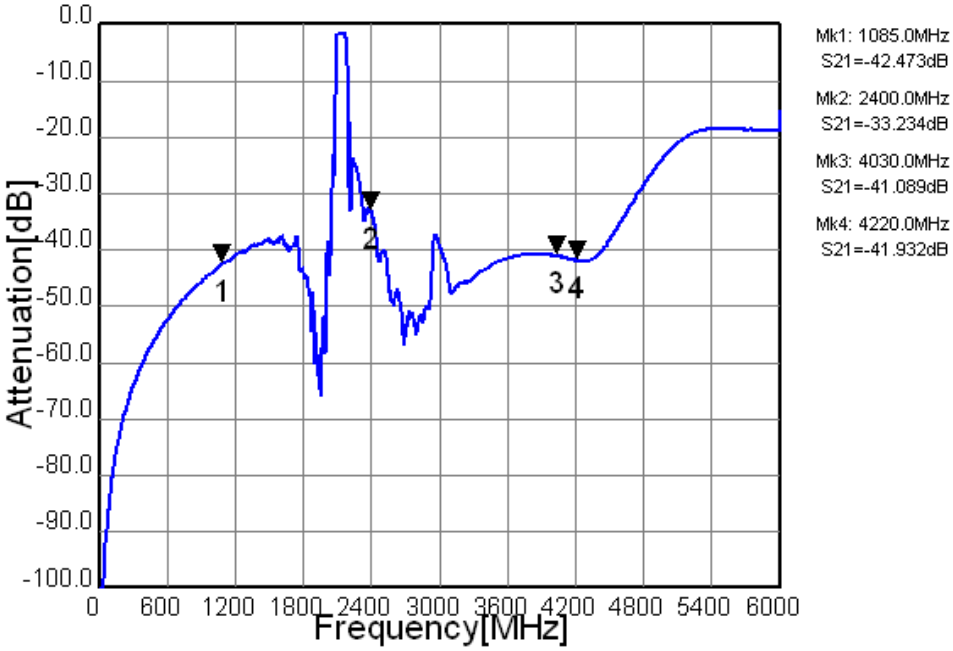


Figure 3-6. Electrical Characteristics

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