Pb-free

RoHS MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band II Duplexer	Date	May 25, 2011
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

Table 1. Electrical Specification

Item			Condition (MHz)	Specification (Ver.2.0bb)			Unit	Remarks
				Min	Typ	Max		
Tx to ANT	Insertion loss		1850.4~1909.6	-	2.3	3.0	dB	-20 to +85 °C
			1850.6~1909.4	-	2.3	3.0	(*1)	
	Ripple		1850.4~1909.6	-	0.9	2.2	dB	
	VSWR	Ant	1850.4~1909.6	-	1.7	2.0	-	
		Tx		-	1.9	2.3		
	Input Power		1850.4~1909.6	+29dBm,Ta=+50°C 50kh,CW			dBm	
	Absolute attenuation		1570~1580	37	39	-	dB	
			1930.4~1989.6	42	56	-	dB	-20 to +85 °C
			1930.6~1989.4	40	56	-		
			3700~3820	20	28	-	dB	
			5550~5730	15	18	-	dB	
ANT to Rx	Insertion loss		1930.4~1989.6	-	2.7	3.5	dB	-20 to +85 °C
			1930.6~1989.4	-	2.7	3.6	(*1)	
	Ripple		1930.4~1989.6	-	1.3	2.2	dB	
	VSWR	Ant	1930.4~1989.6	-	1.6	2.0	-	
		Rx	1930.4~1989.6	-	1.7	2.1	-	
	Absolute attenuation		1850.4~1909.6	48	55	-	dB	-20 to +85 °C
			1850.6~1909.4	48	55			
Tx to Rx	Isolation		1850.4~1909.6	52	55	-	dB	-20 to +85 °C
			1850.6~1909.4	52	55	-		
			1930.4~1989.6	47	53	-	dB	-20 to +85 °C
			1930.6~1989.4	45	53	-		
Terminating Impedance			Tx port	50			Ohm	Single-ended
			Rx port	50			Ohm	Single-ended
			Ant port	50			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 0.65			mm	

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

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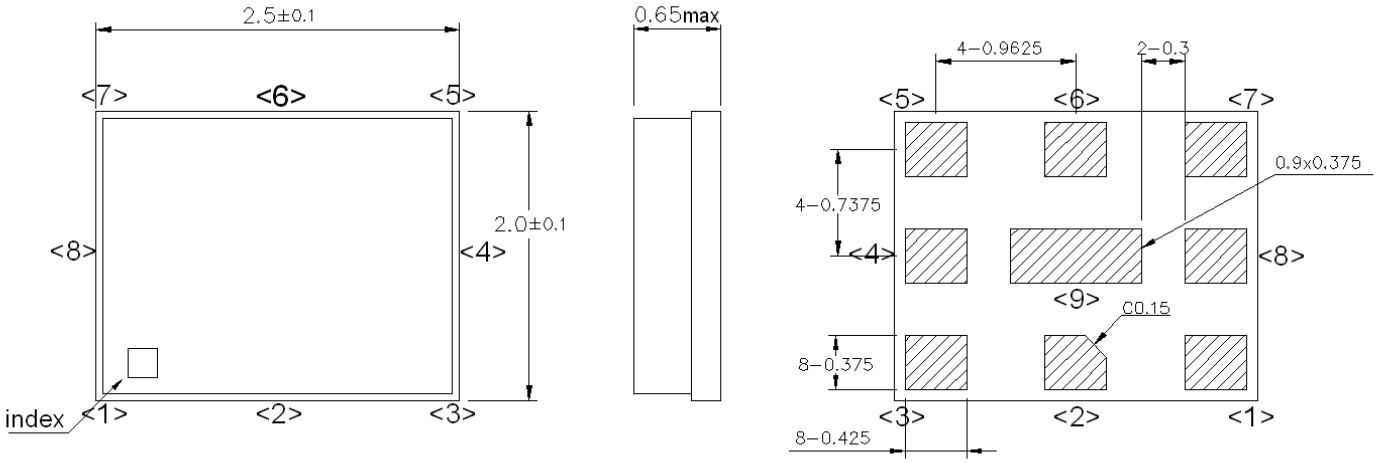
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

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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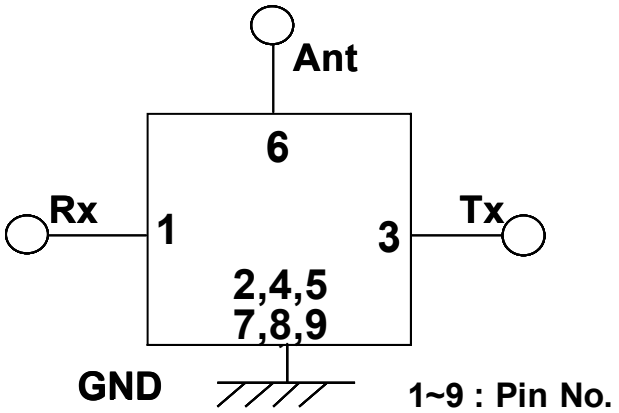
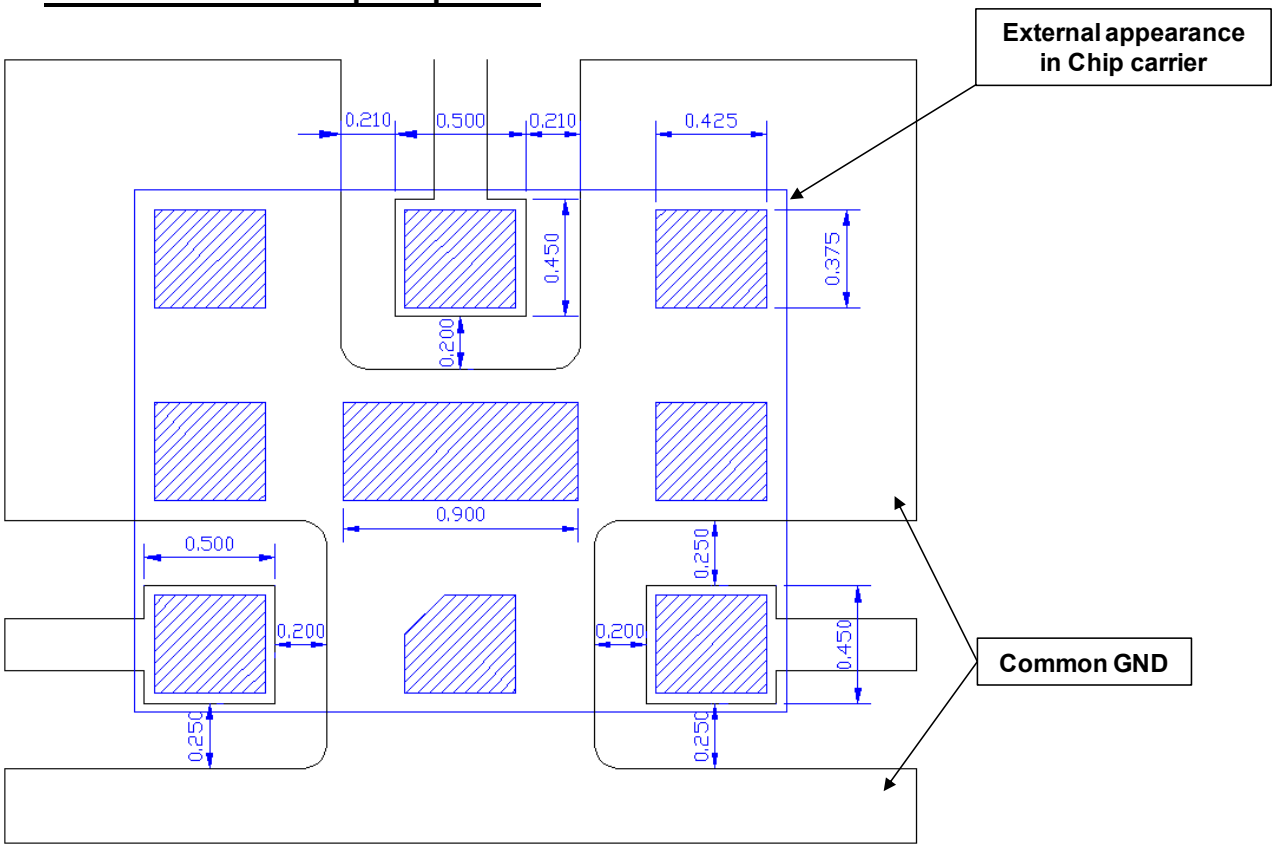
Evaluation Circuit



Recommended foot print pattern



Unit: mm

Figure 2. Recommended foot print pattern

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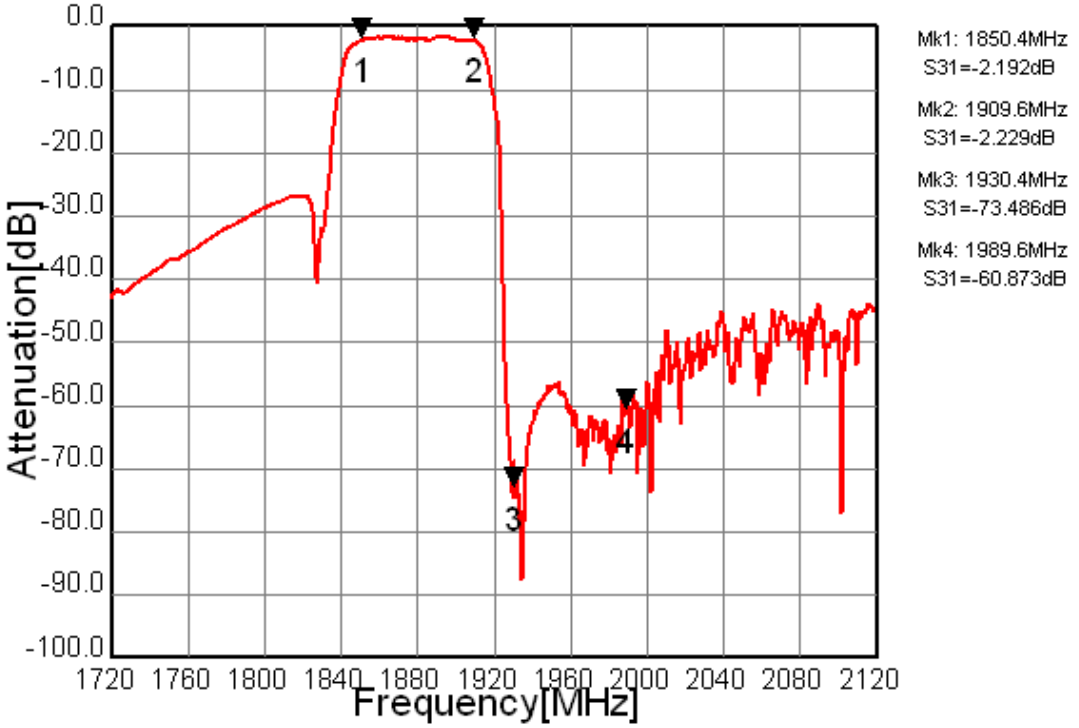
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

Tx to Ant



Ant to Rx

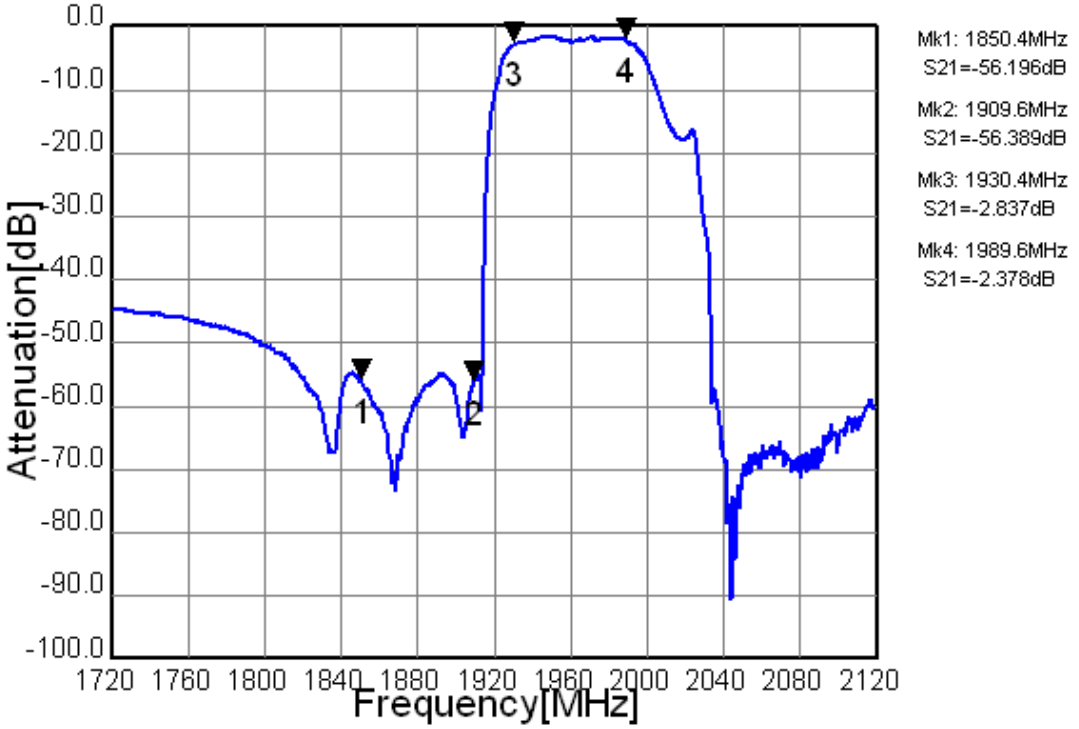
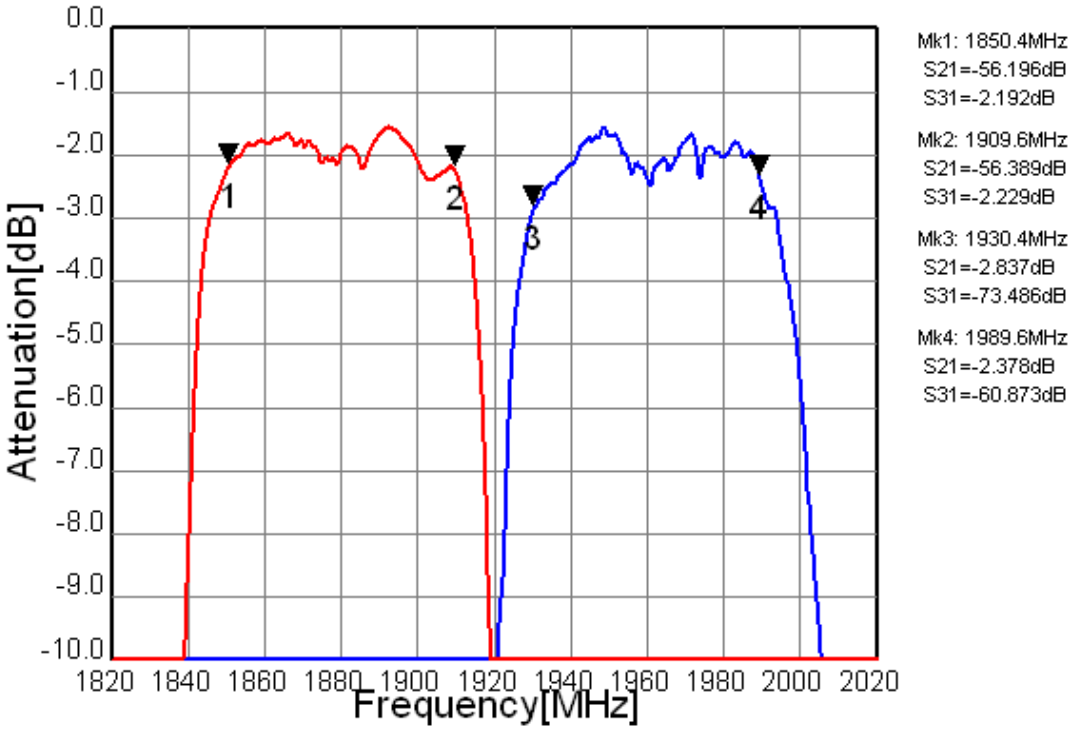


Figure 3-1. Electrical Characteristics

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

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band II Duplexer	Date	May 25, 2011
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

Tx to Ant, Ant to Rx



Tx to Rx Isolation

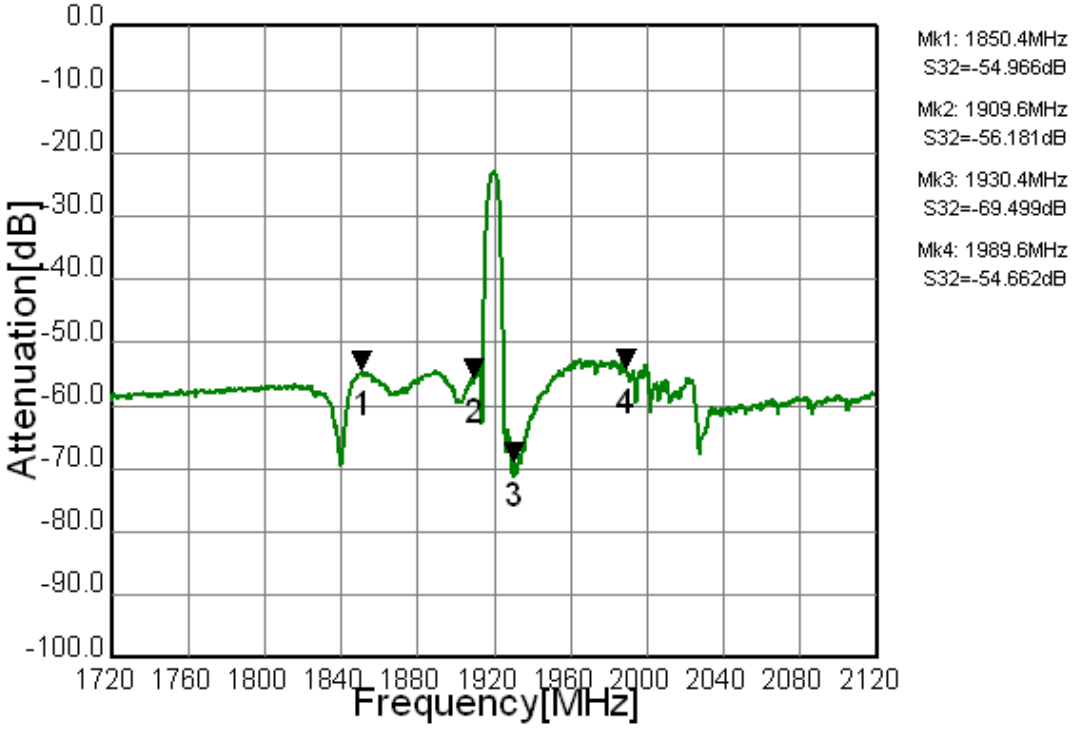
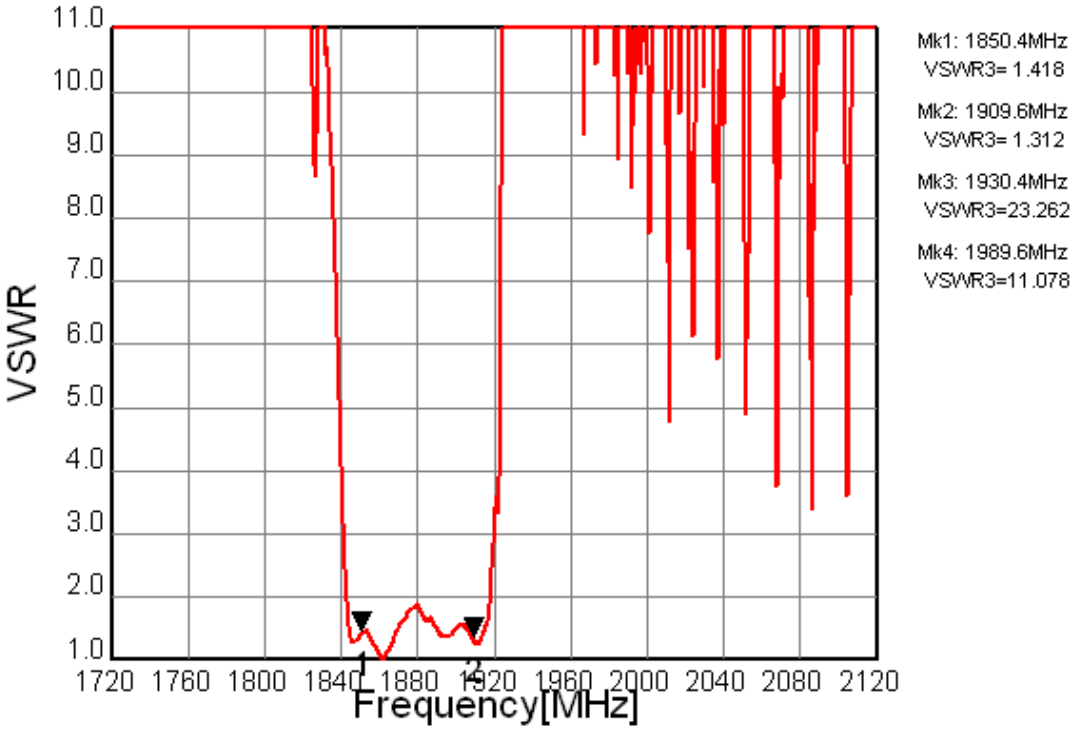


Figure 3-2. Electrical Characteristics

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

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band II Duplexer	Date	May 25, 2011
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

Tx Port



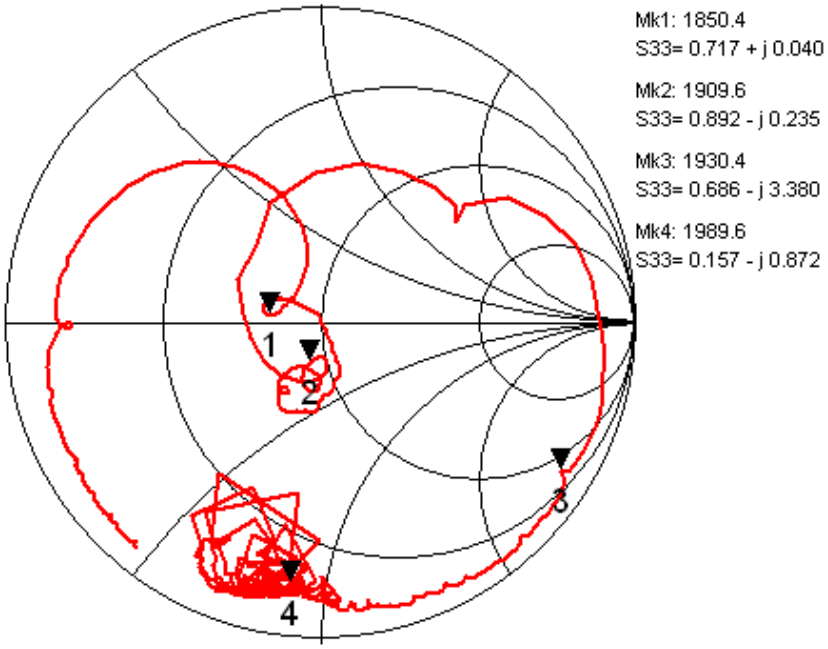
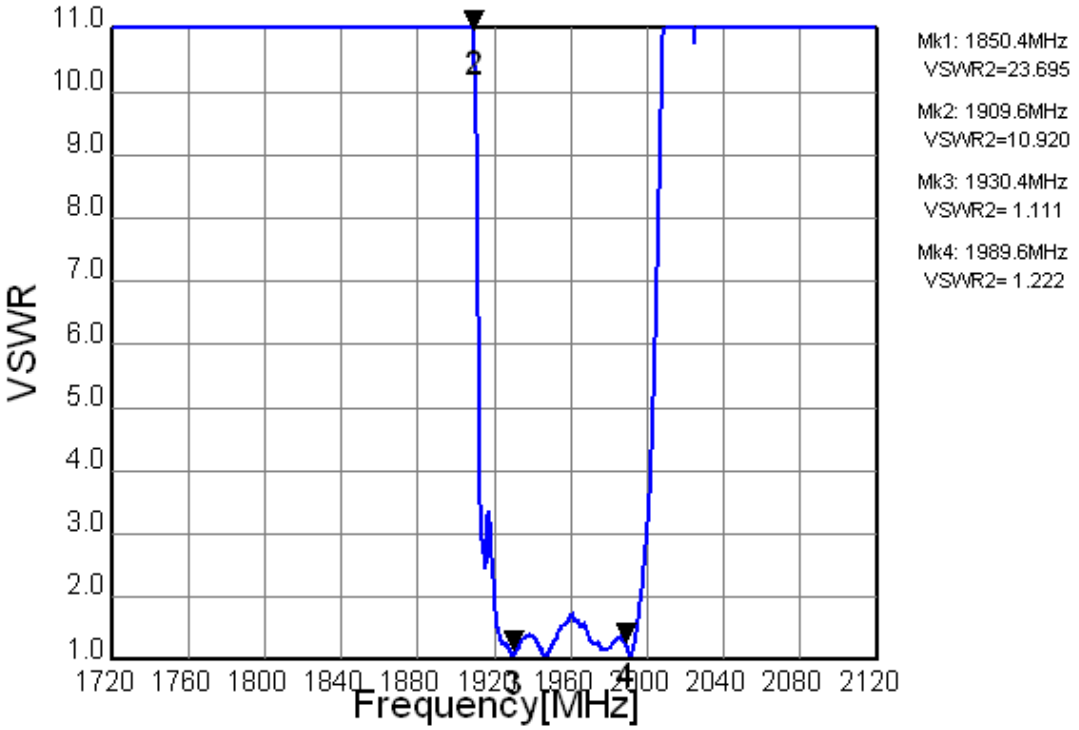


Figure 3-3. Electrical Characteristics

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band II Duplexer	Date	May 25, 2011
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

Rx Port



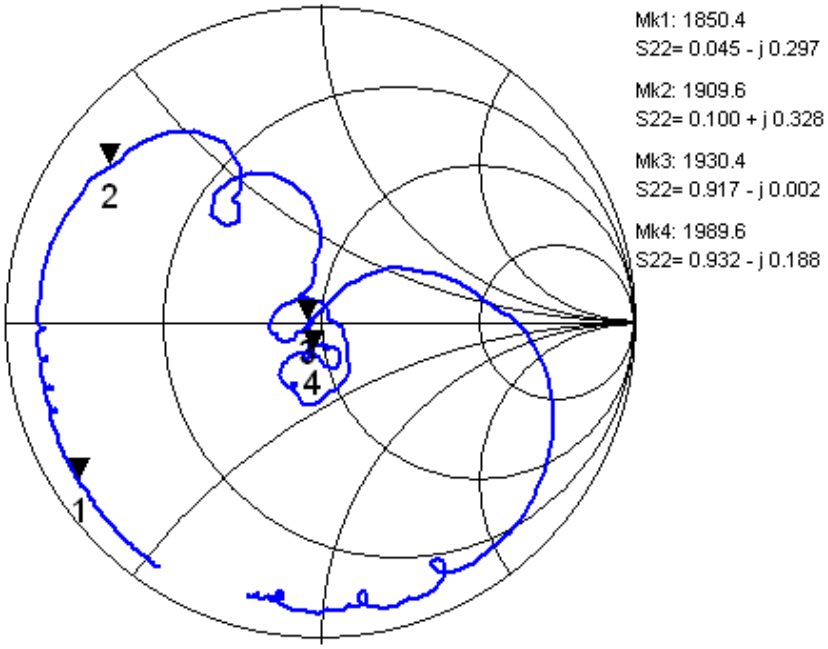
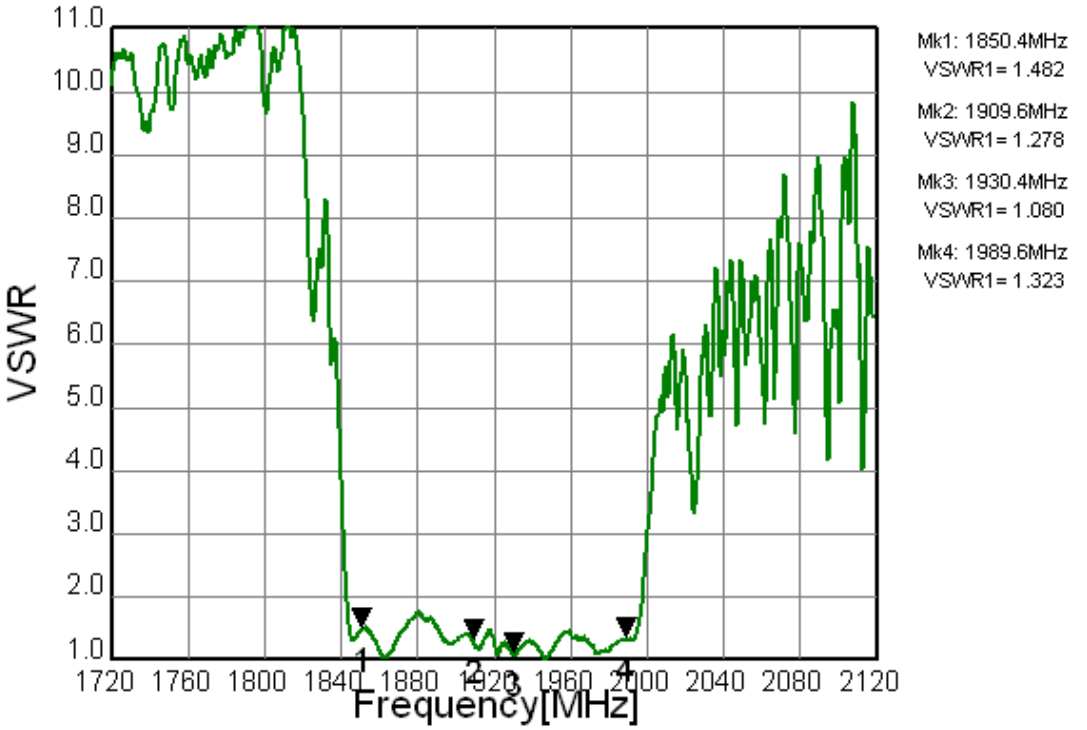


Figure 3-4. Electrical Characteristics

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band II Duplexer	Date	May 25, 2011
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

Ant Port



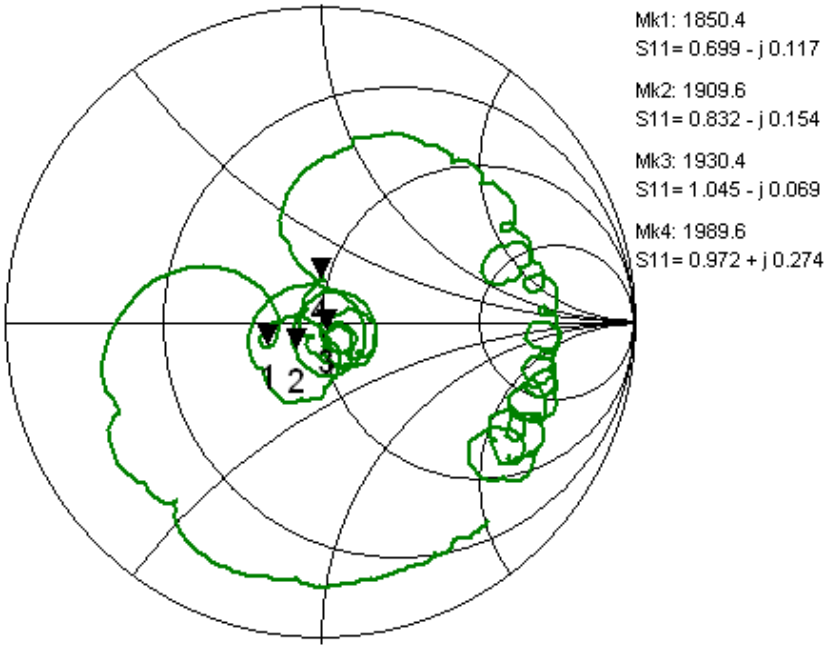
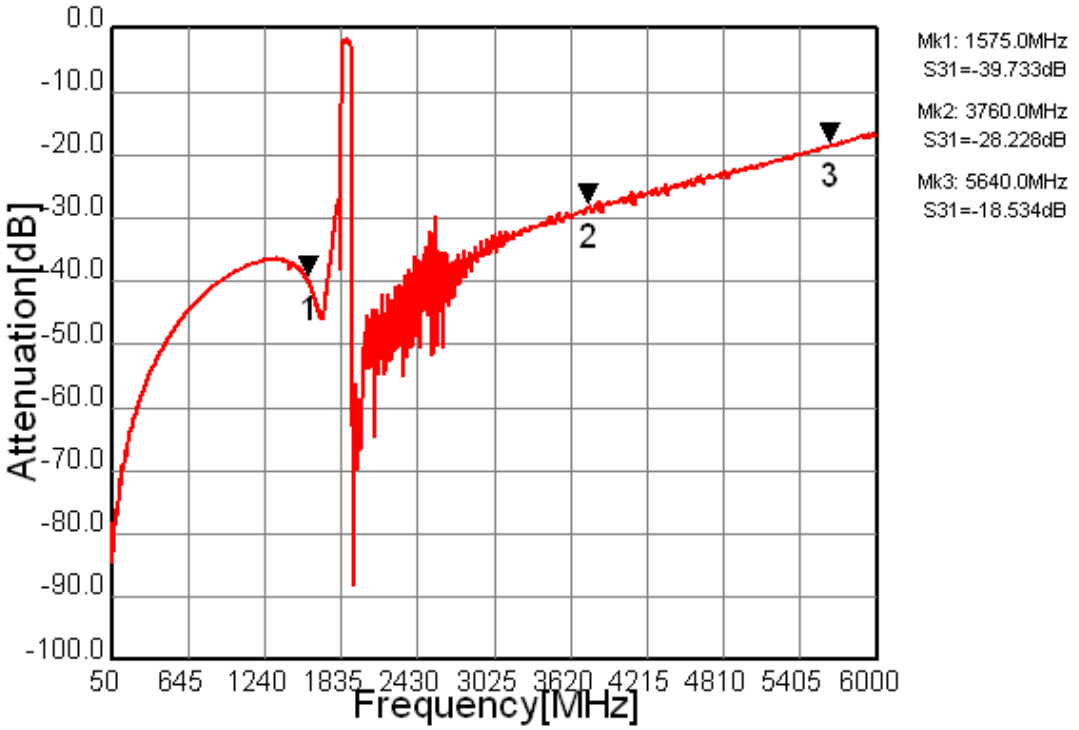


Figure 3-5. Electrical Characteristics

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band II Duplexer	Date	May 25, 2011
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

Tx to Ant (Wide span)



Ant to Rx (Wide span)

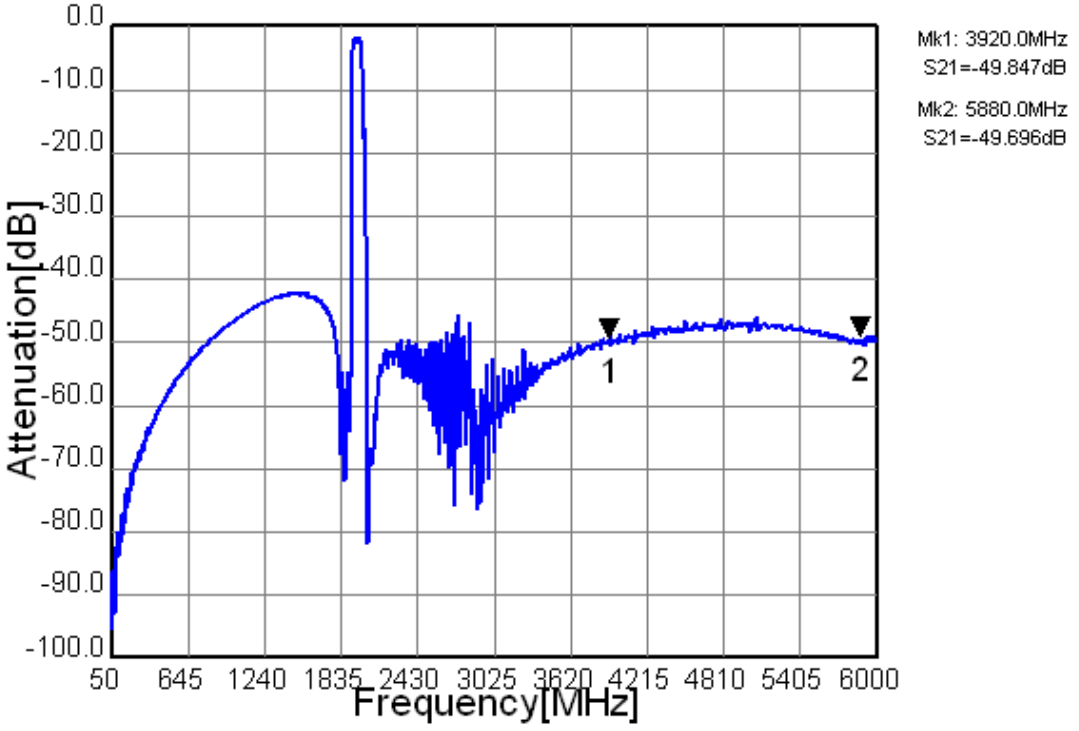


Figure 3-6. Electrical Characteristics