



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Table 1. Electrical Specification

Item		Condition (MHz)	Proposal Ver.4.0cd			Unit	Remarks
			Min	Typ	Max		
Tx to ANT	Insertion loss	704~716	-	1.7	2.3(*1)	dB	
	Ripple	704~716	-	0.5	1.5	dB	
	VSWR	704~716	-	1.4	2.0	dB	
			-	1.4	2.0	dB	
	Input Power	704~716	TBD			-	CW tone
		674 ~ 686	30	43	-	dB	
		728 ~ 734	20	48	-	dB	
		734 ~ 746	45	56	-	dB	
		746 ~ 756	30	49	-	dB	
		758 ~ 768	30	40	-	dB	
		869 ~ 894	30	36	-	dB	
		1408 ~ 1432	30	45	-	dB	
		1574 ~ 1577	43	50	-	dB	
		1805 ~ 1880	40	52	-	dB	
		1930 ~ 1990	40	49	-	dB	
		2112 ~ 2148	40	46	-	dB	
		2110 ~ 2170	40	46	-	dB	
		2400 ~ 2500	32	41	-	dB	

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



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Item			Condition (MHz)	Proposal Ver.4.0cd			Unit	Remarks
				Min	Typ	Max		
ANT to Rx	Insertion loss		734~746	-	2.0	2.6(*1)	dB	
	Ripple		734~746	-	0.6	1.5	dB	Any 5MHz
	VSWR	ANT	734~746	-	1.5	2.0	dB	
		Rx		-	1.5	2.0	dB	
	Phase balance		734~746	-10	-2.4/+2	+10	deg	
	Amplitude balance		734~746	-1.3	-0.7/0.1	+1.3	dB	
			224.7 ~ 248.7	45	87		dB	
			367 ~ 373	45	85		dB	
			674 ~ 686	53	63		dB	
			704 ~ 716	50	61	-	dB	
			716 ~ 722	40	53	-	dB	
			722 ~ 728	10	43	-	dB	
			1438 ~ 1462	40	58	-	dB	
			2142 ~ 2178	40	54	-	dB	
Tx to Rx	Isolation		704 ~ 716	55	61	-	dB	
			734 ~ 746	50	58	-	dB	
Terminating Impedance			Tx port	50			Ohm	Single-ended
			Rx port	100			Ohm	Differential
			Ant port	50//10nH(Q=∞)			Ohm	Single-ended
Operating Temperature				-20 to +85			°C	
Device size (LxWxH)				2.5(typ) x 2.0(typ) x 0.6(max)			mm³	

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



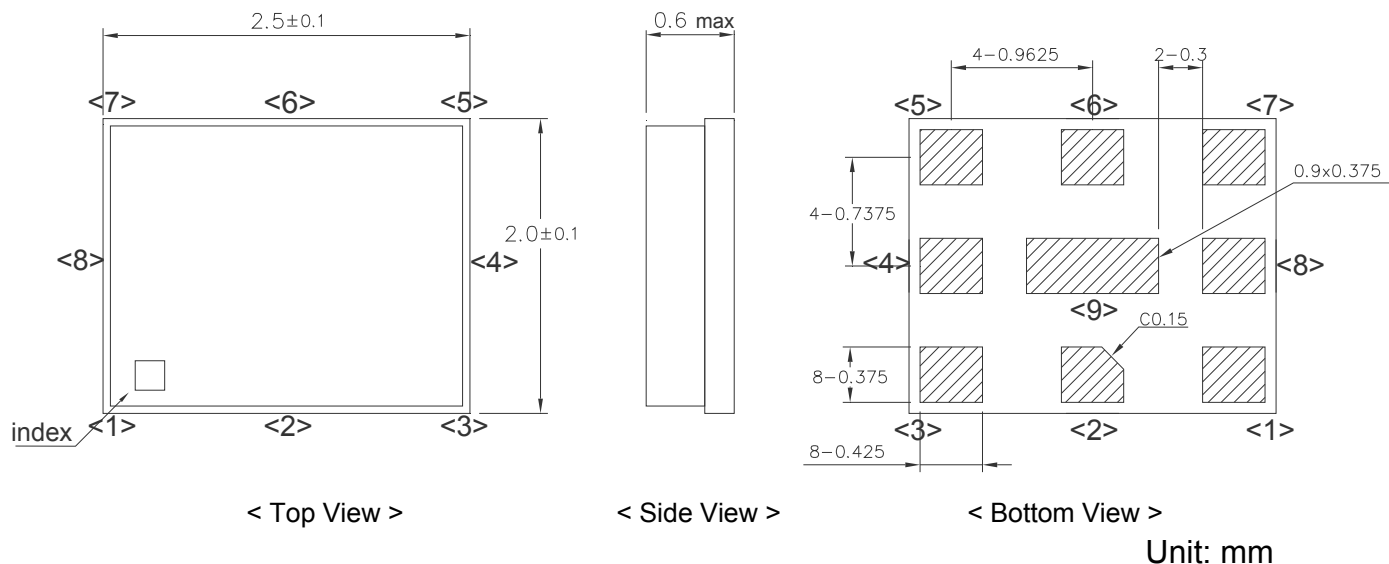
* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Dimensions



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



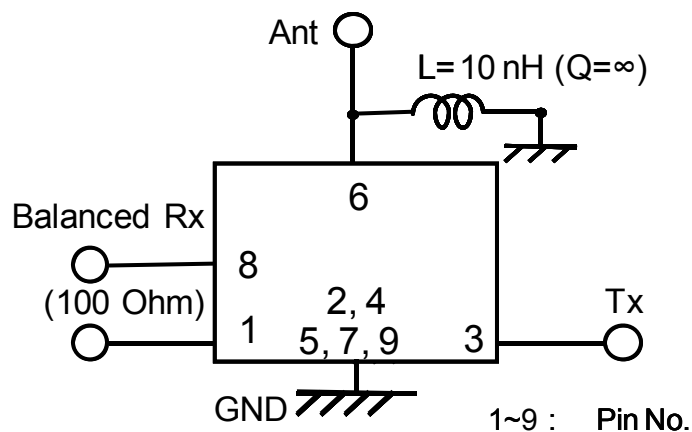
* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Evaluation Circuit



Recommended foot print pattern

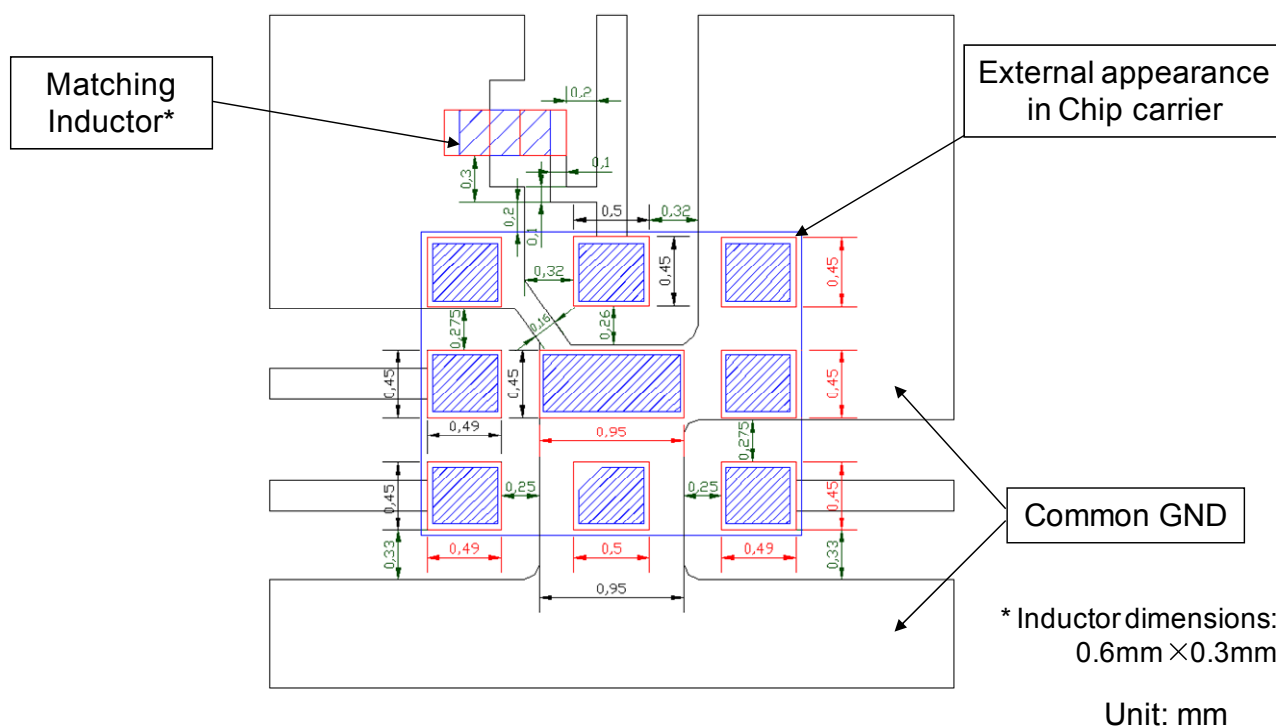


Figure 2. Recommended foot print pattern



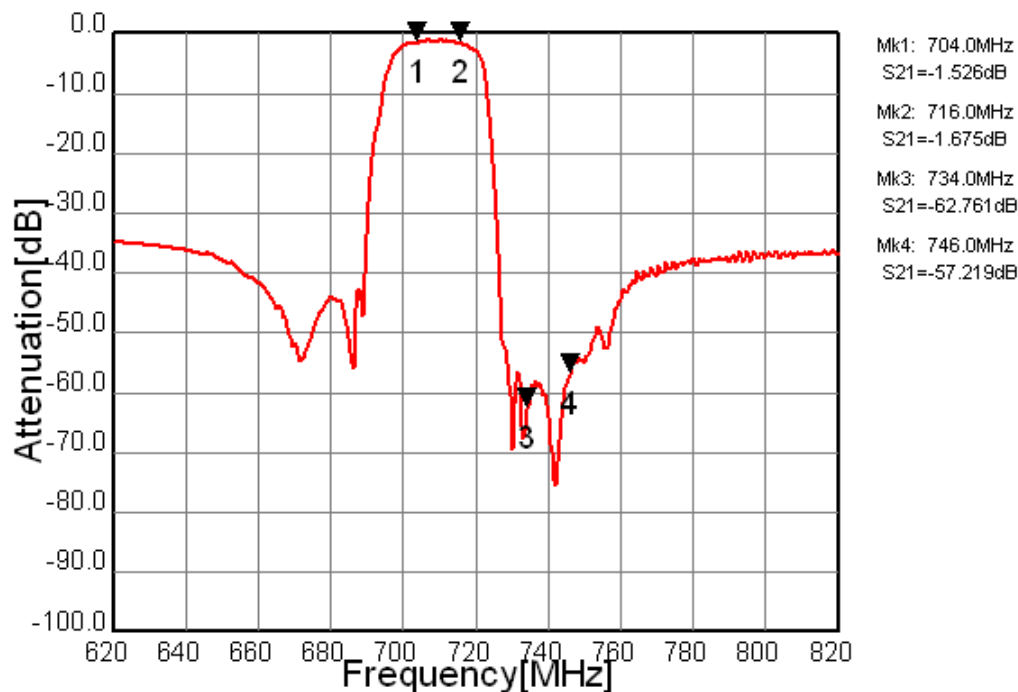
* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Tx to Ant



Ant to Rx

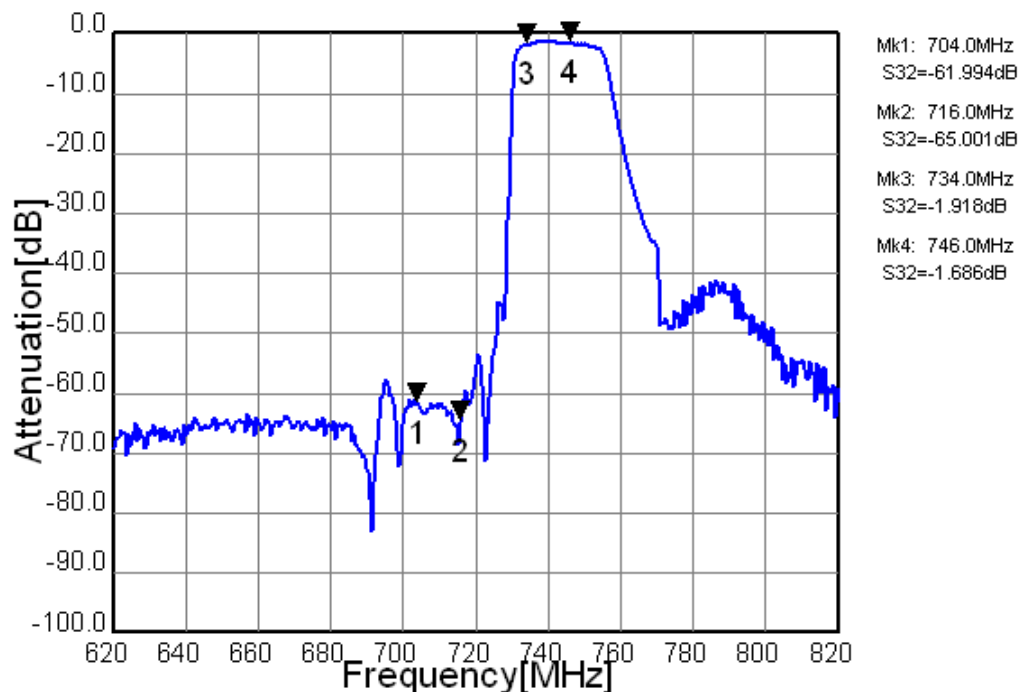


Figure 3-1. Electrical Characteristics

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



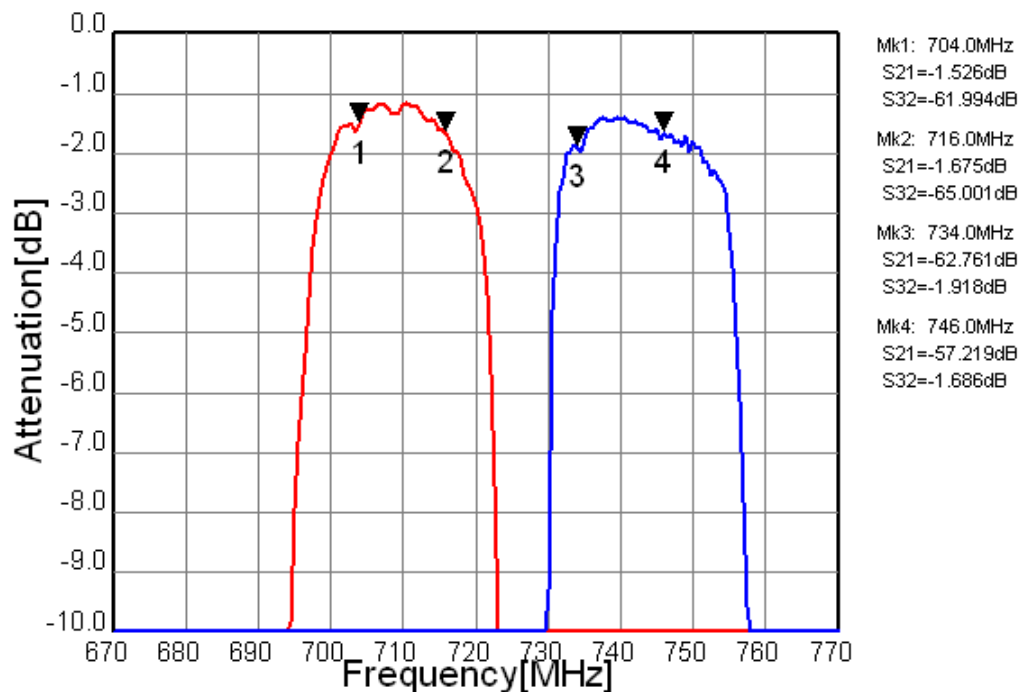
* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Tx to Ant, Ant to Rx



Tx to Rx Isolation

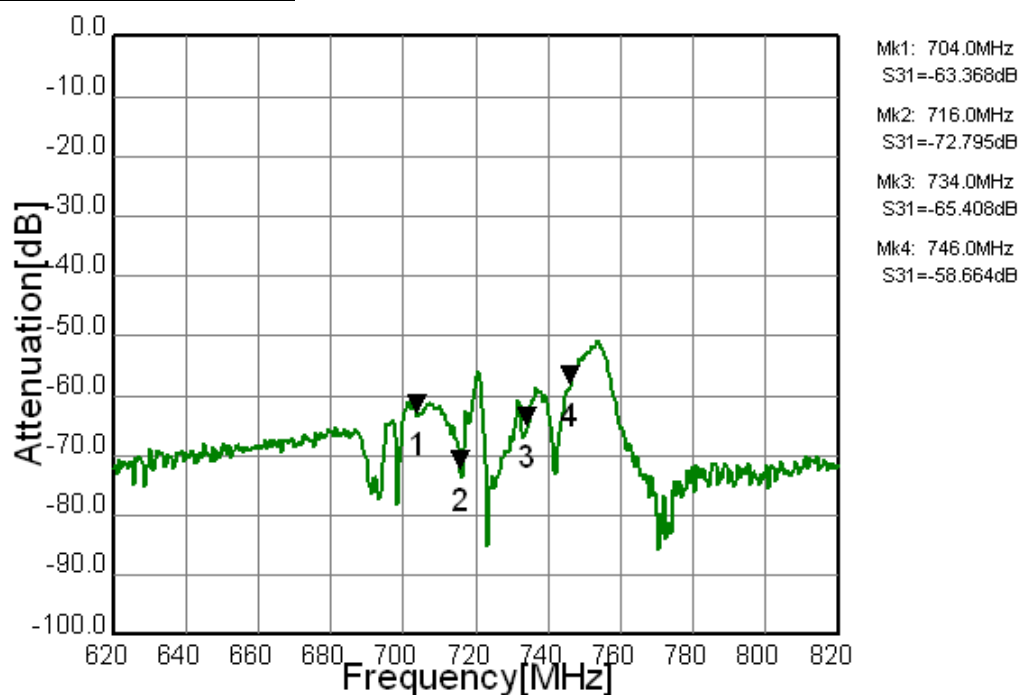


Figure 3-2. Electrical Characteristics

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



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Tx Port

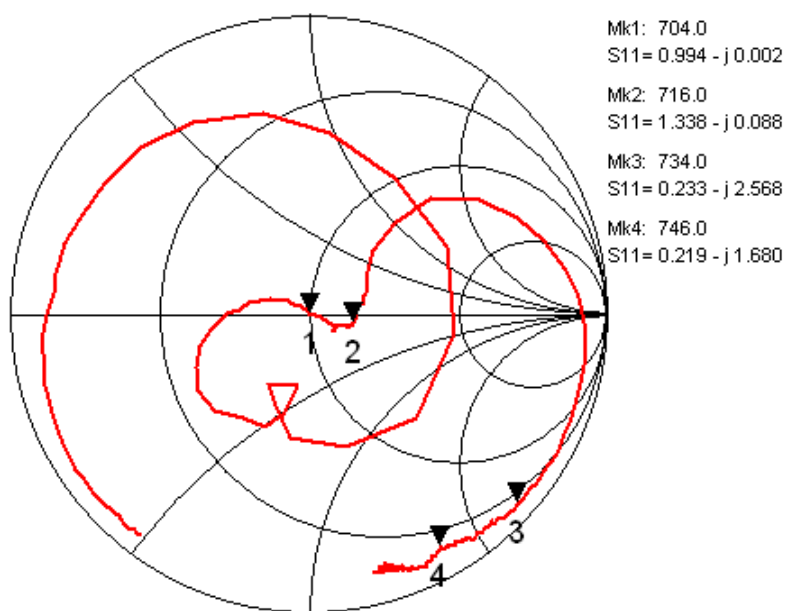
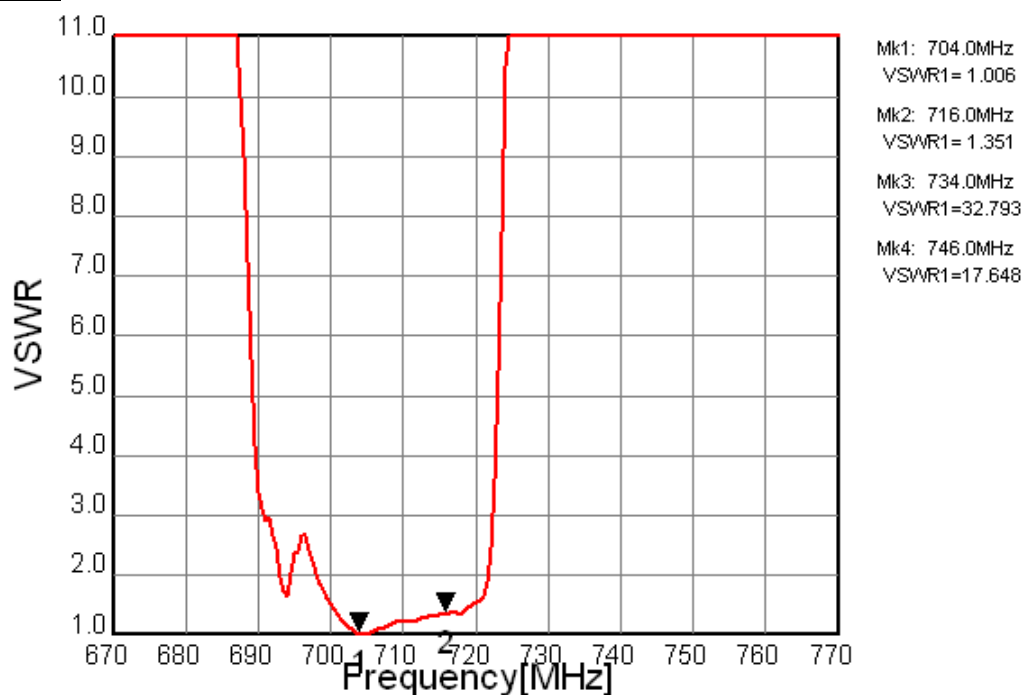


Figure 3-3. Electrical Characteristics



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Rx Port

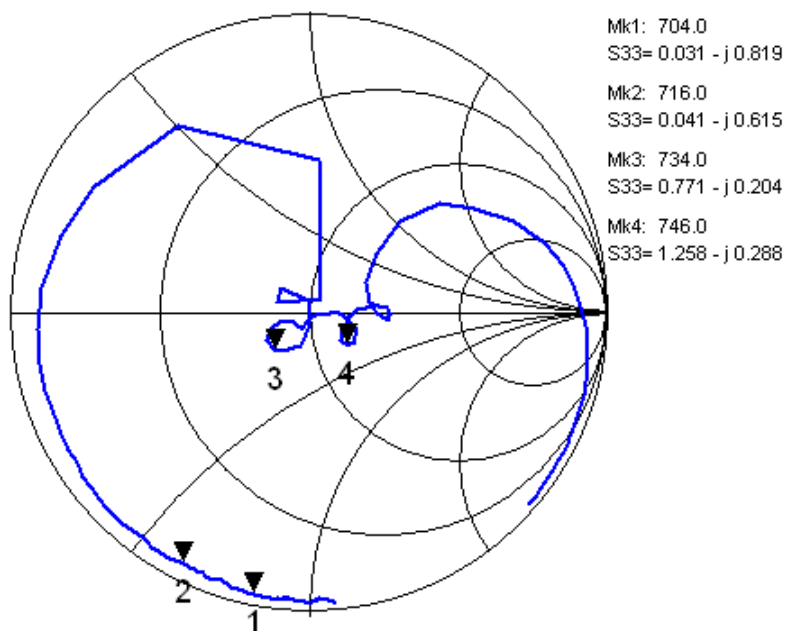
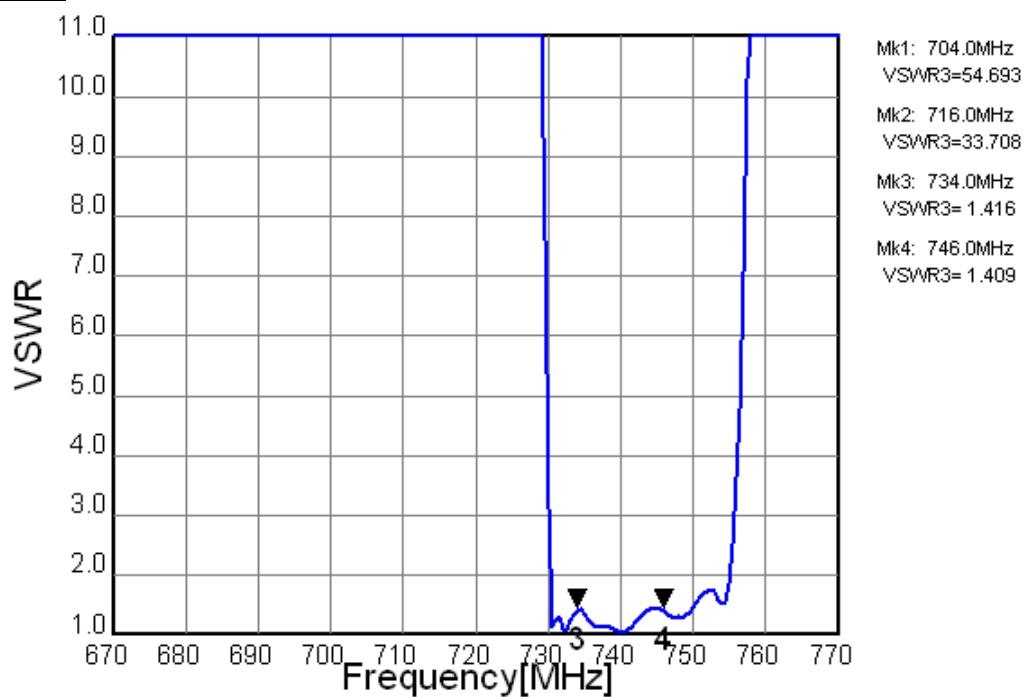


Figure 3-4. Electrical Characteristics



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Ant Port

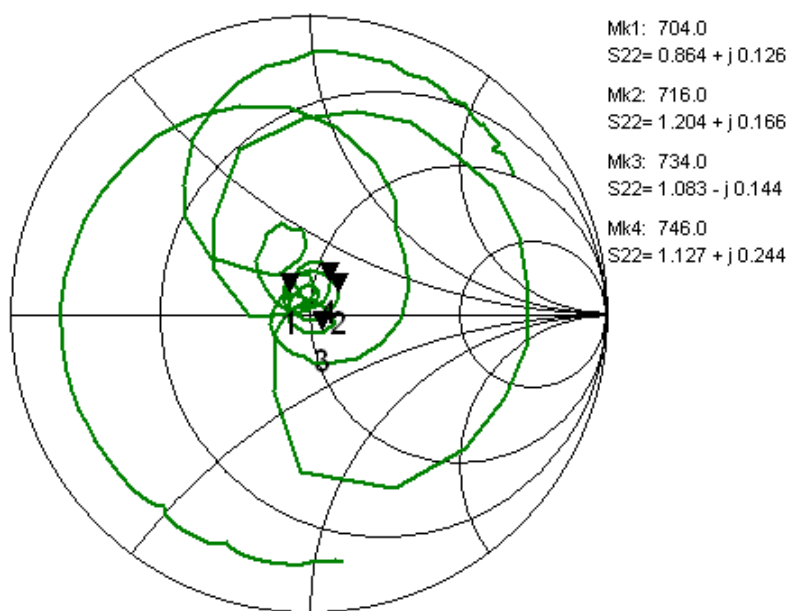
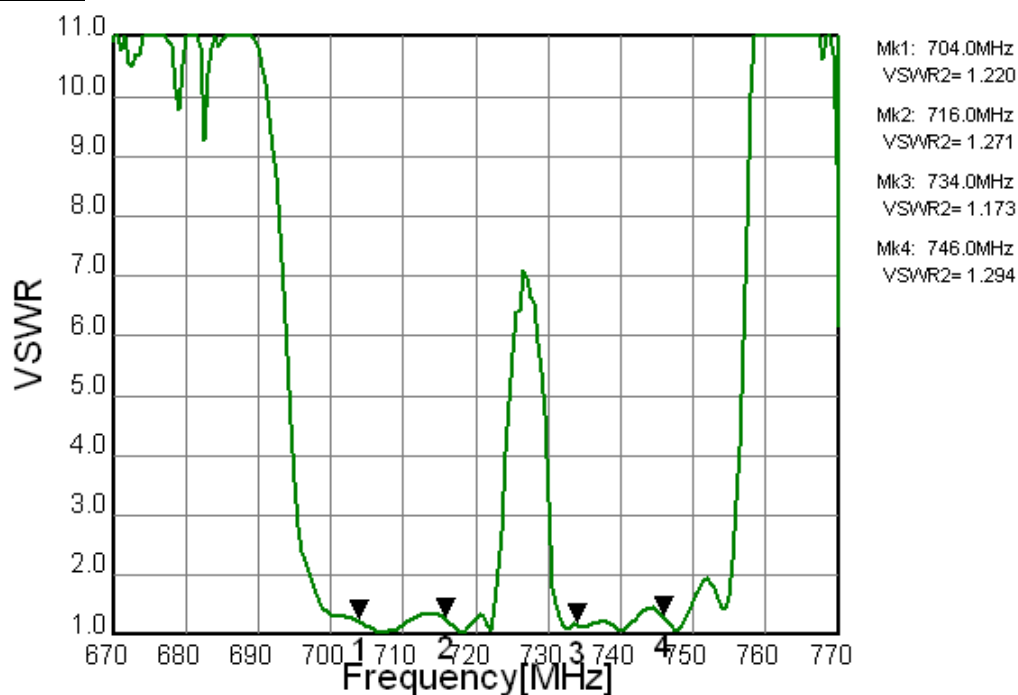


Figure 3-5. Electrical Characteristics



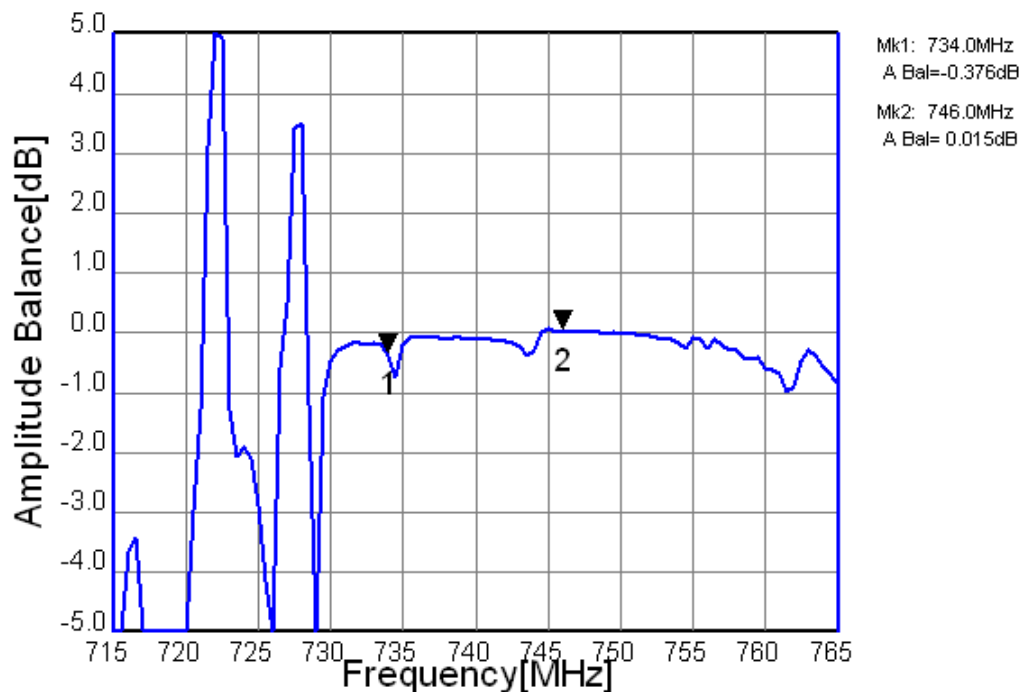
* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

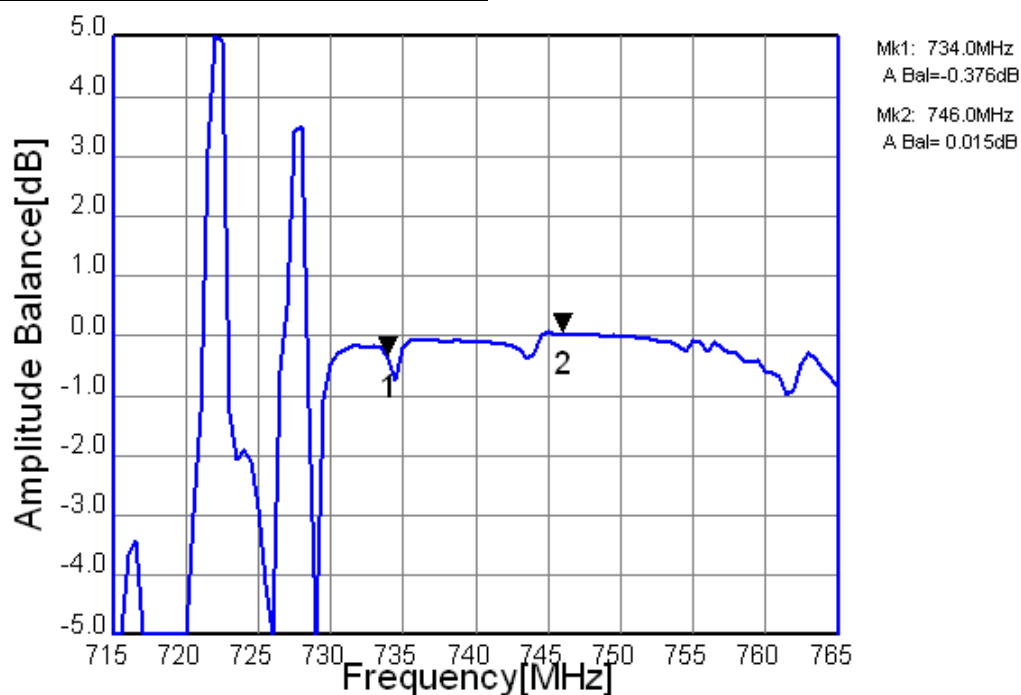


Figure 3-6. Electrical Characteristics



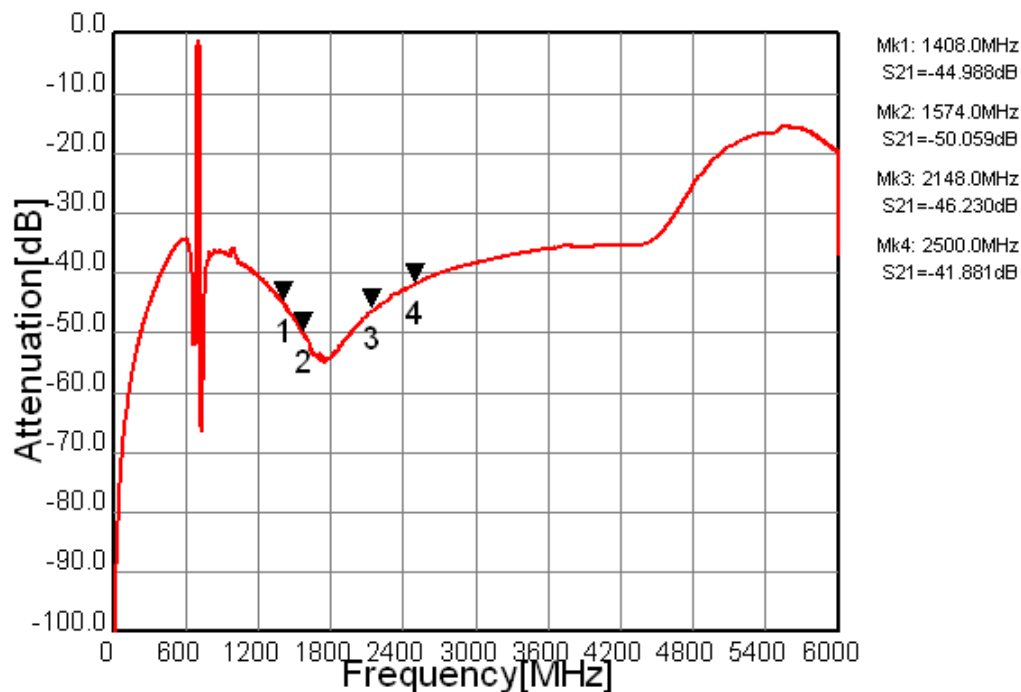
* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band XVII Duplexer	Date	June. 9, 2011
Part Number	FAR-D5NE-740M00-P1C9	Ver.4.0cd	

Tx to Ant (Wide Span)



Ant to Rx (Wide Span)

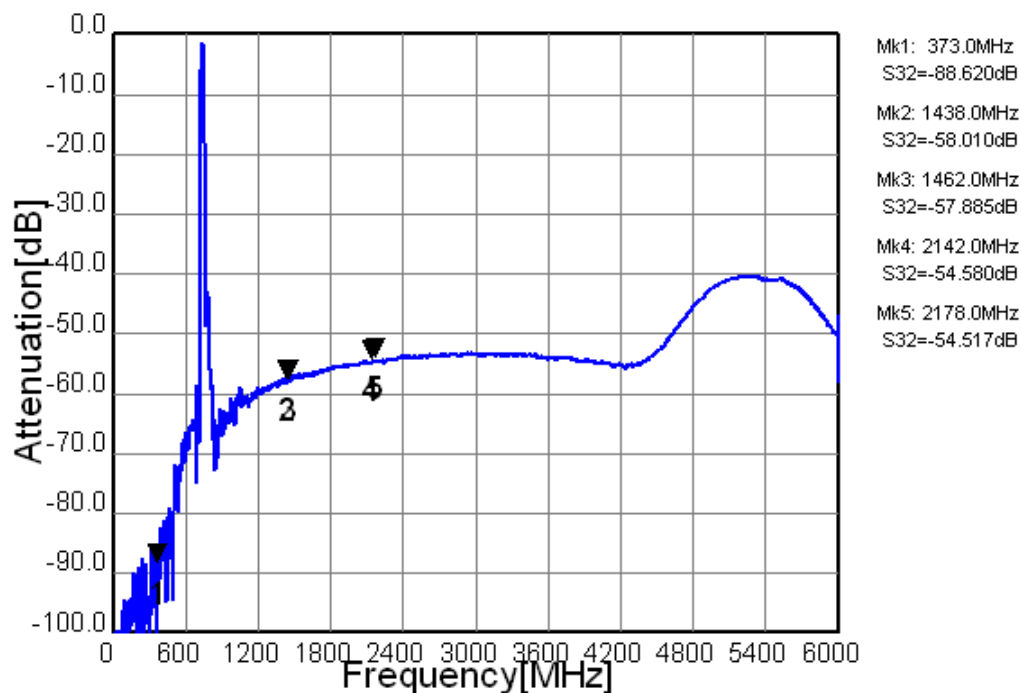


Figure 3-7. Electrical Characteristics

TAIYO YUDEN