



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)

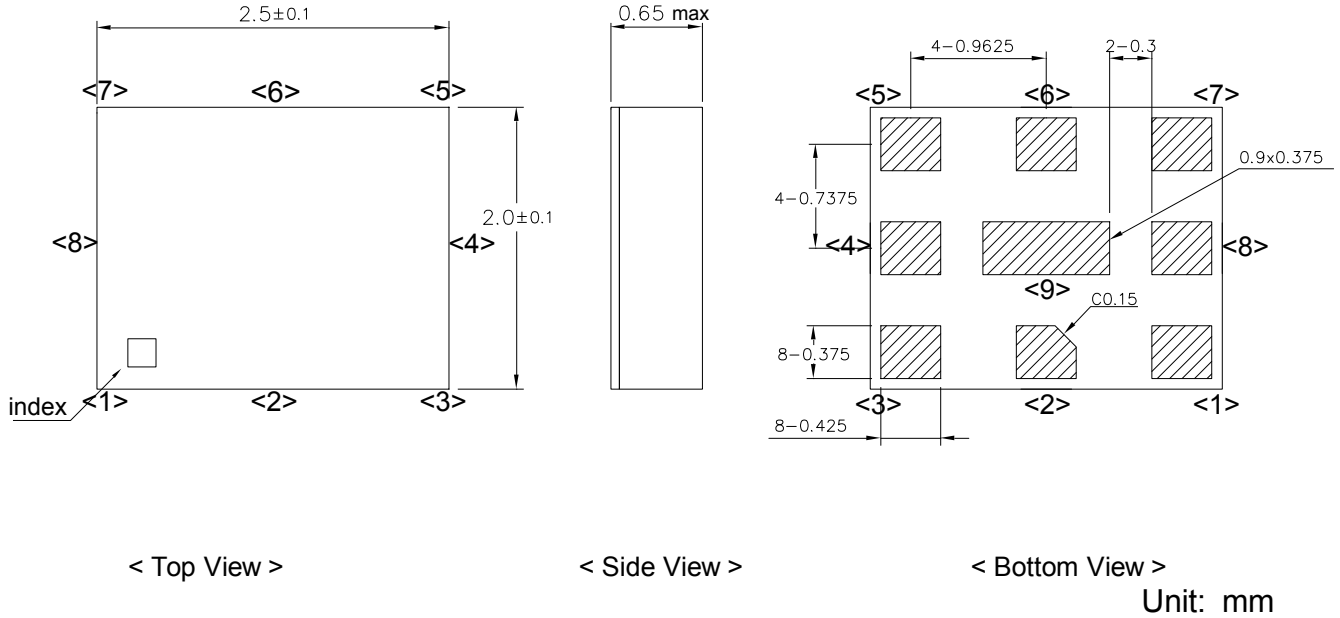


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Dimensions



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

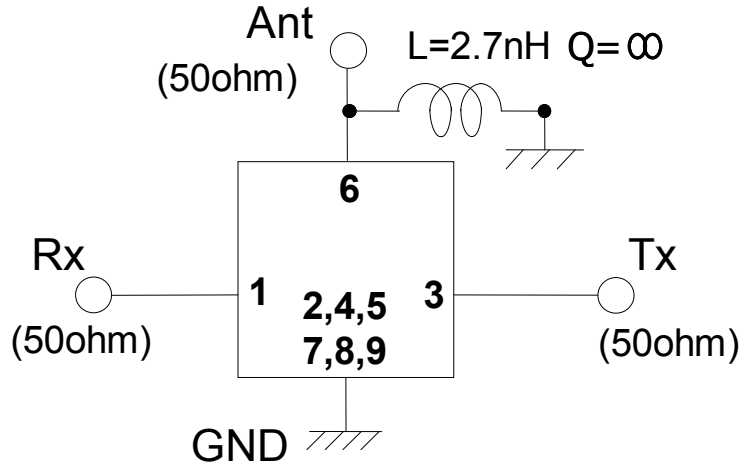


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Evaluation Circuit



1~9: Pin No.

Recommended foot print pattern

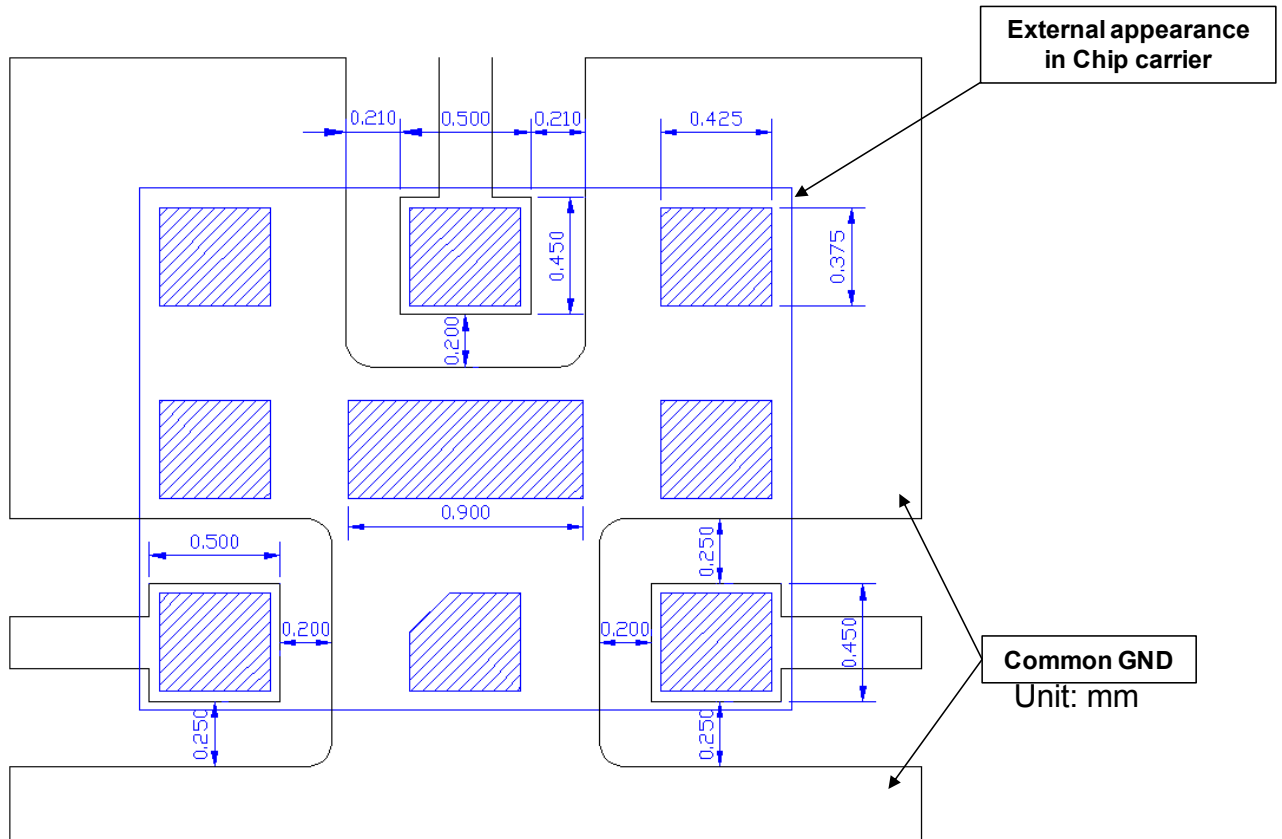


Figure 2. Recommended foot print pattern

Tx to Ant

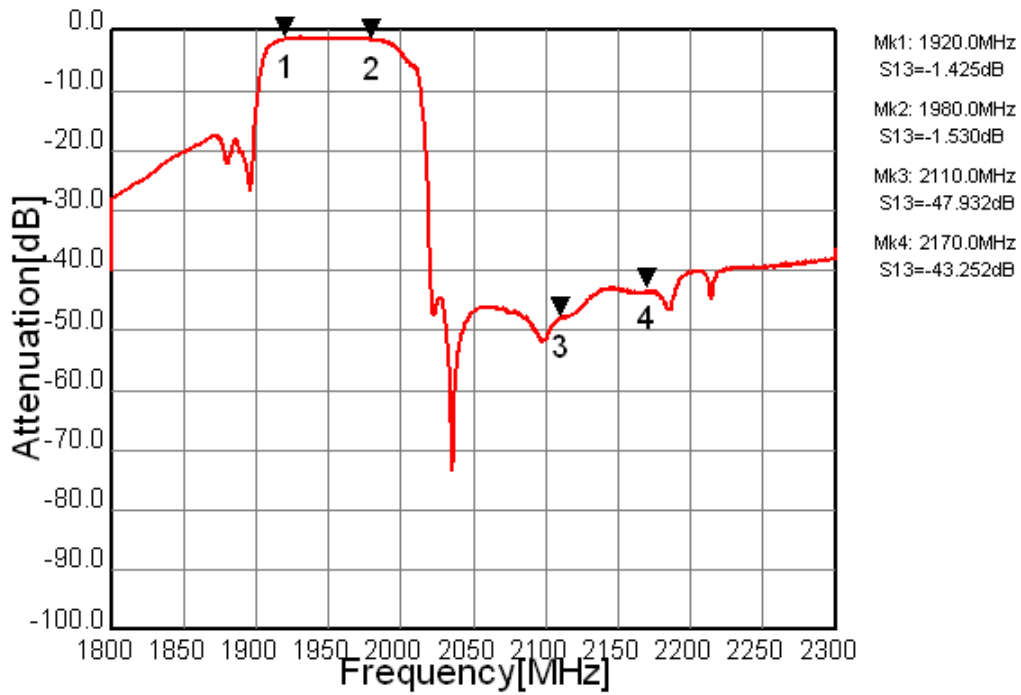
TAIYO YUDEN



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Ant to Rx

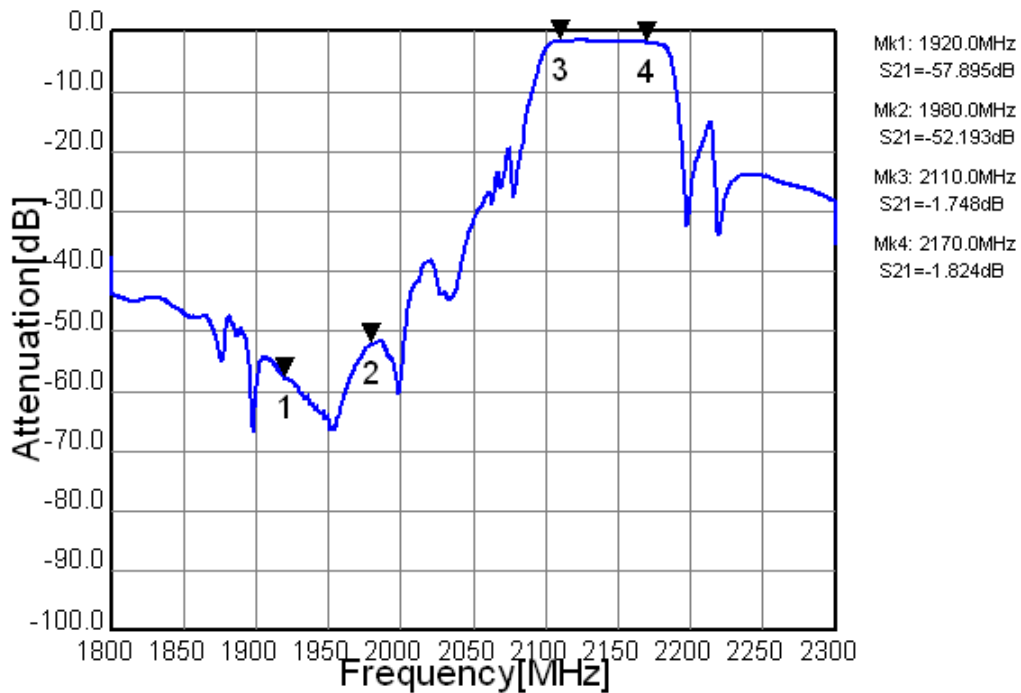


Figure 3-1. Electrical Characteristics

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

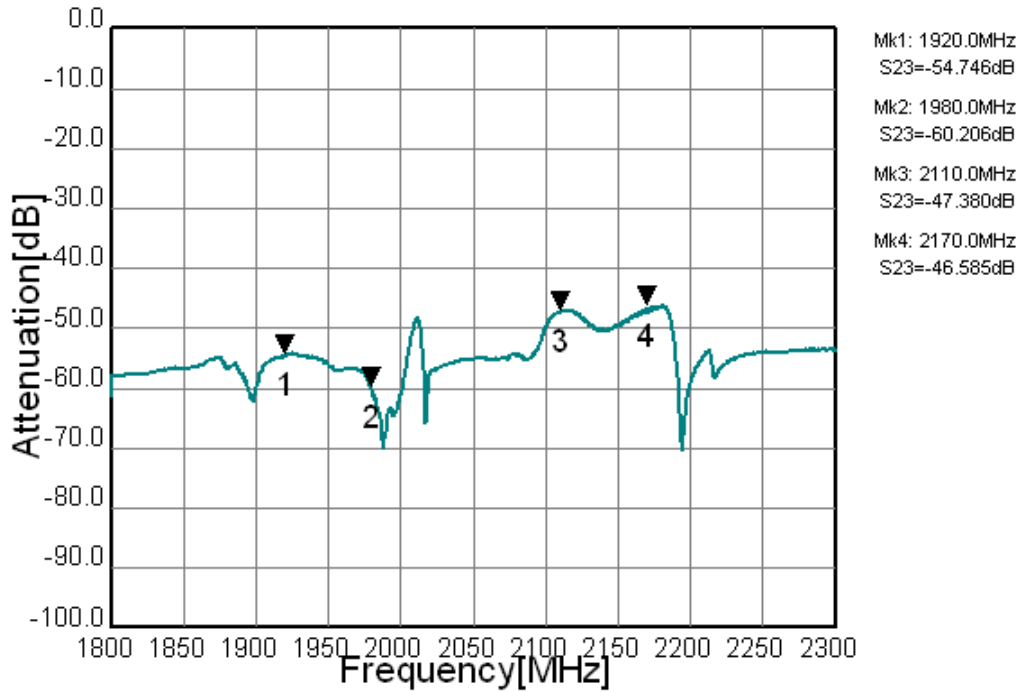


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Tx to Ant, Ant to Rx



Tx to Rx Isolation

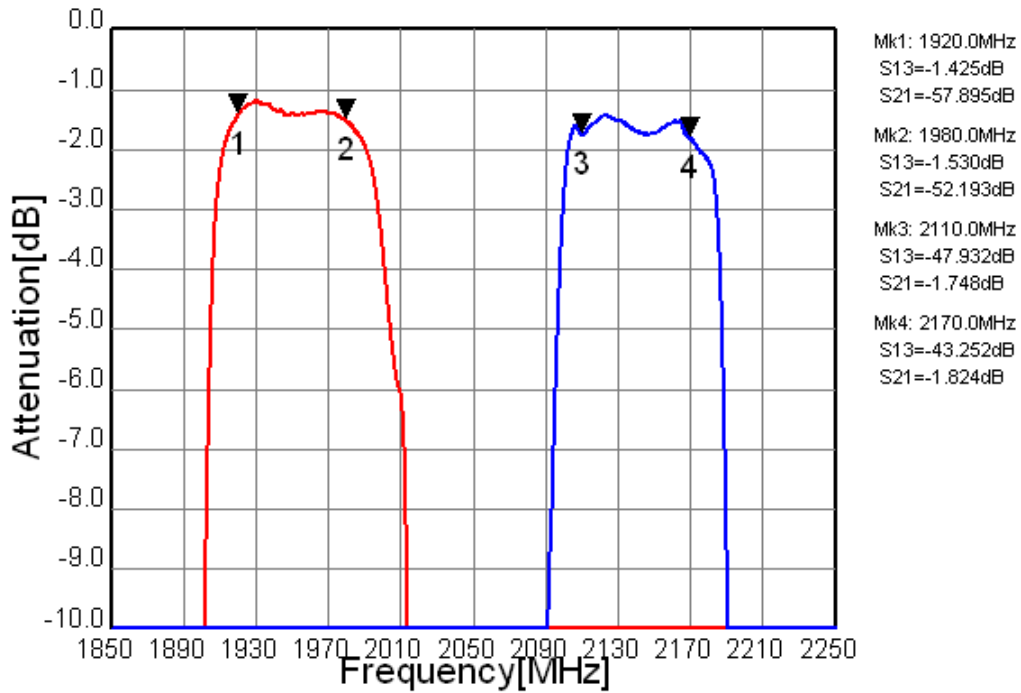


Figure 3-2. Electrical Characteristics

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



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Tx Port

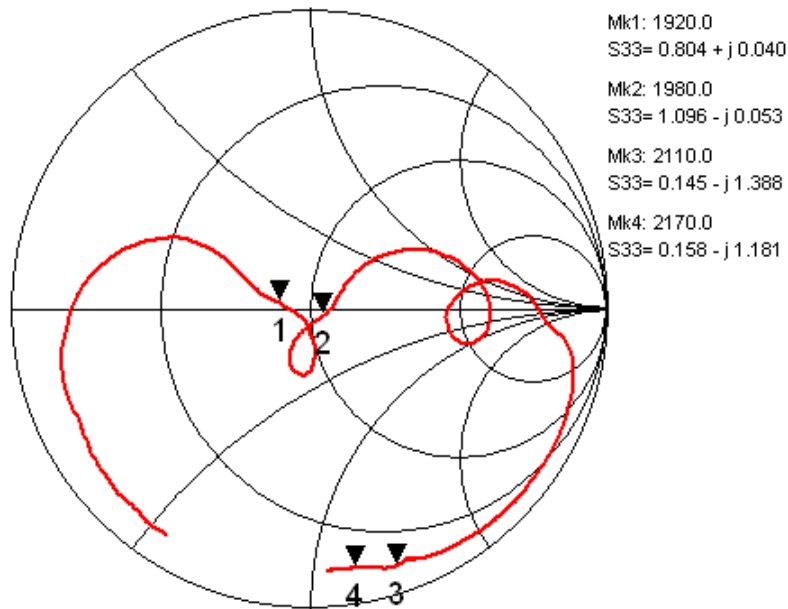
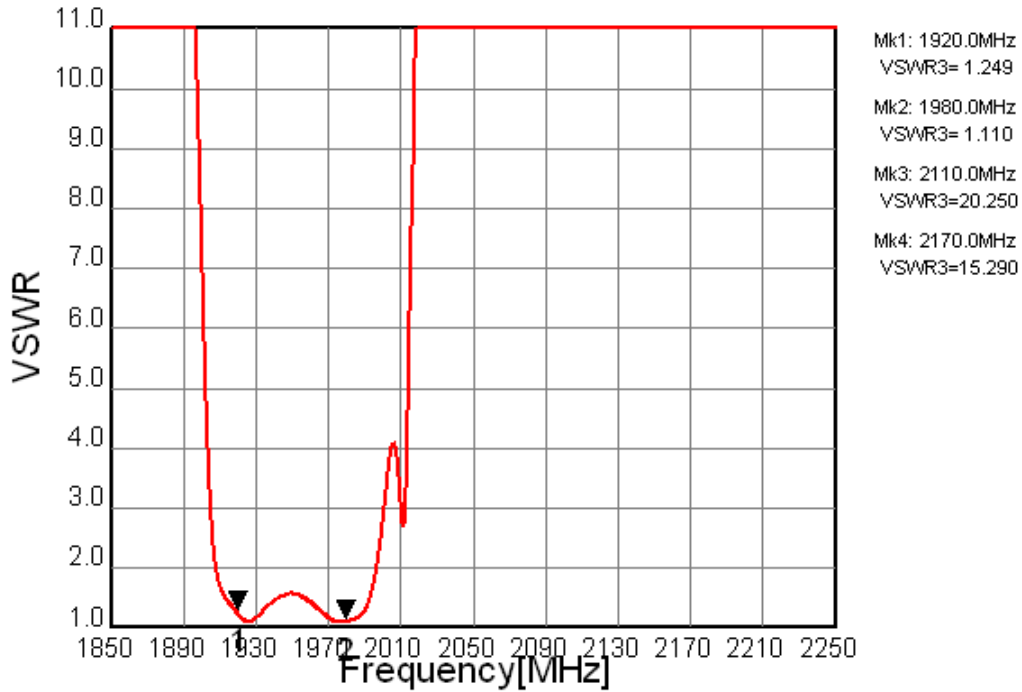


Figure 3-3. Electrical Characteristics



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Rx Port

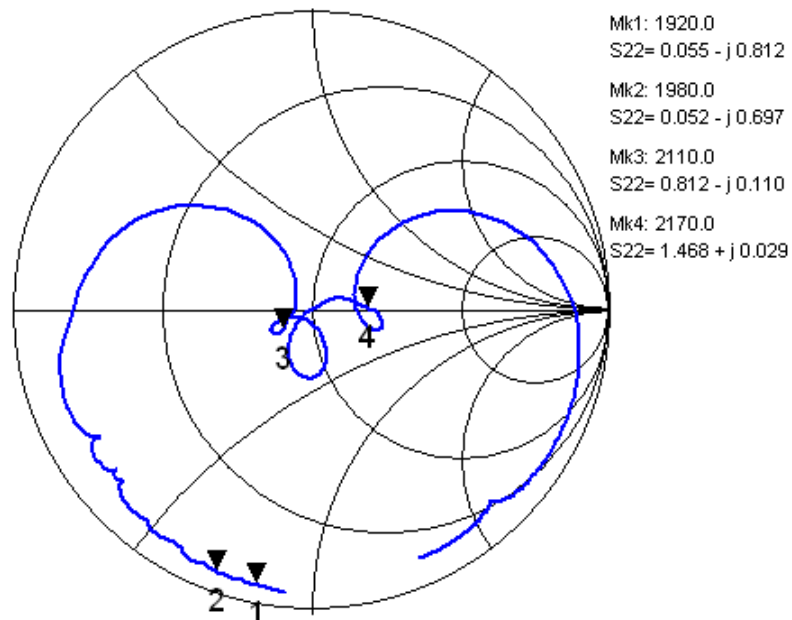
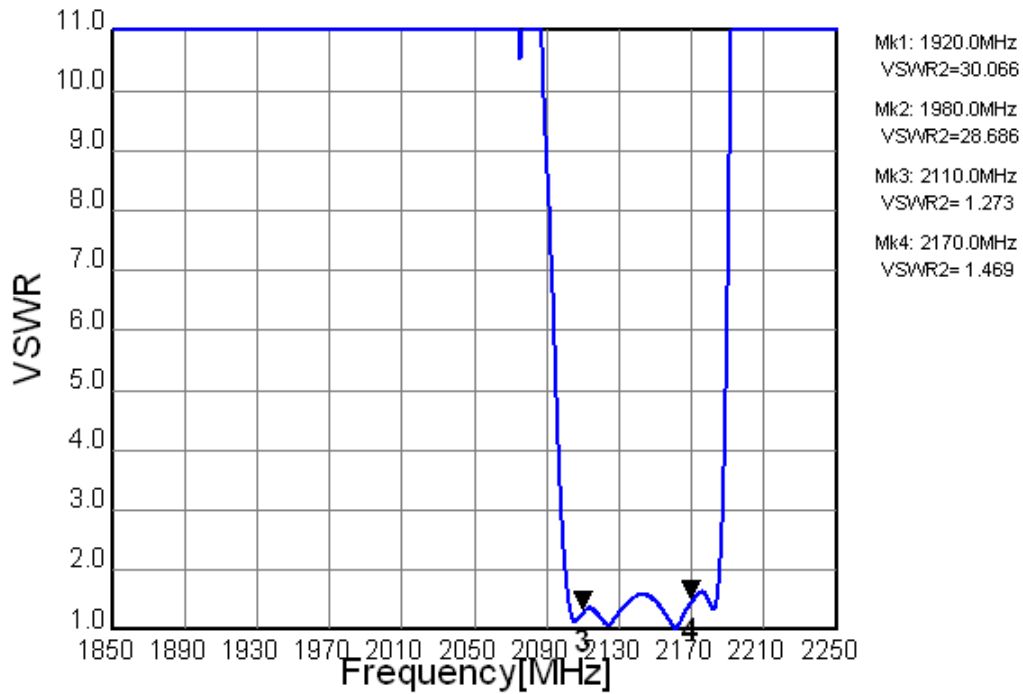


Figure 3-4. Electrical Characteristics



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Ant Port

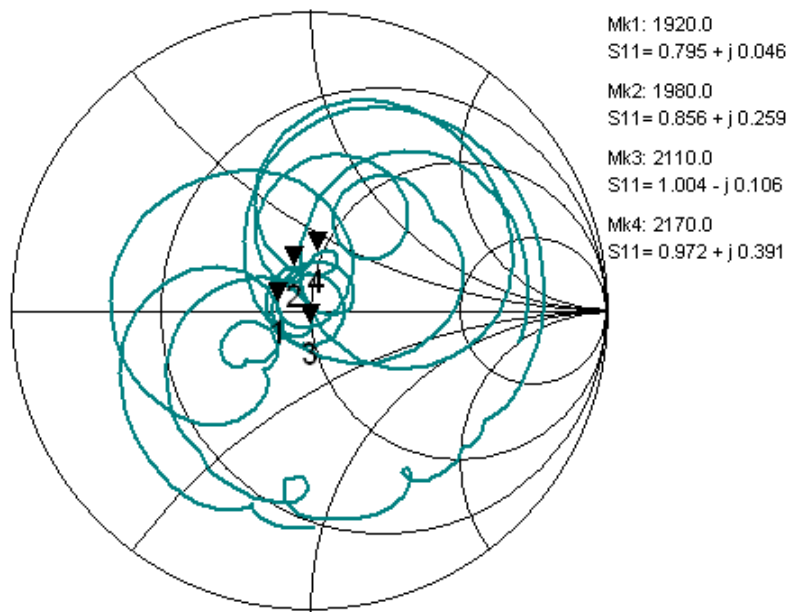
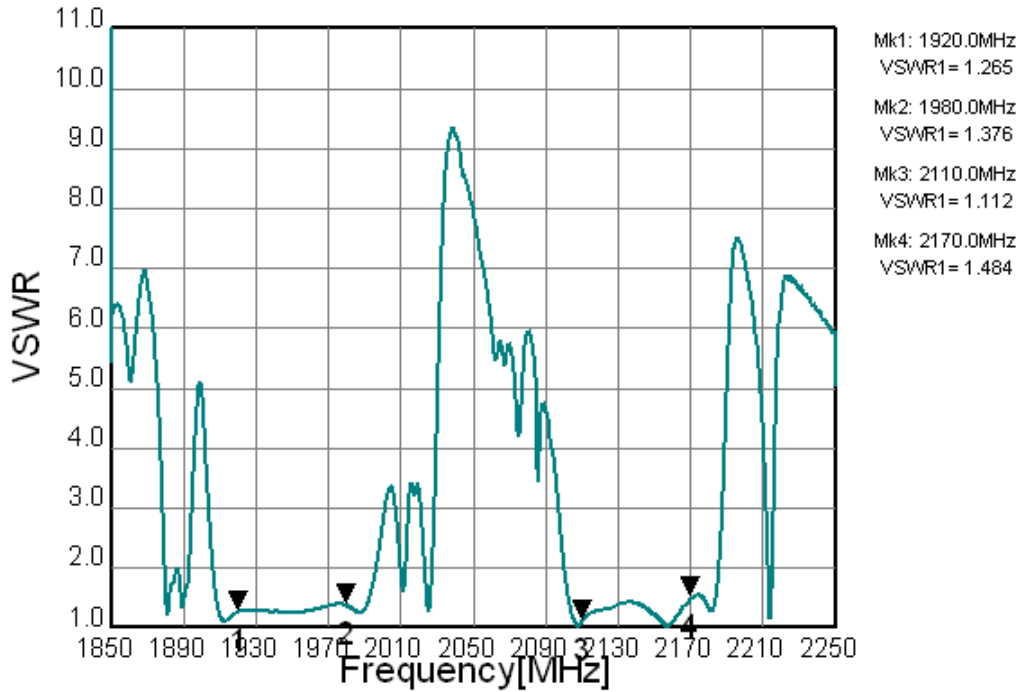


Figure 3-5. Electrical Characteristics

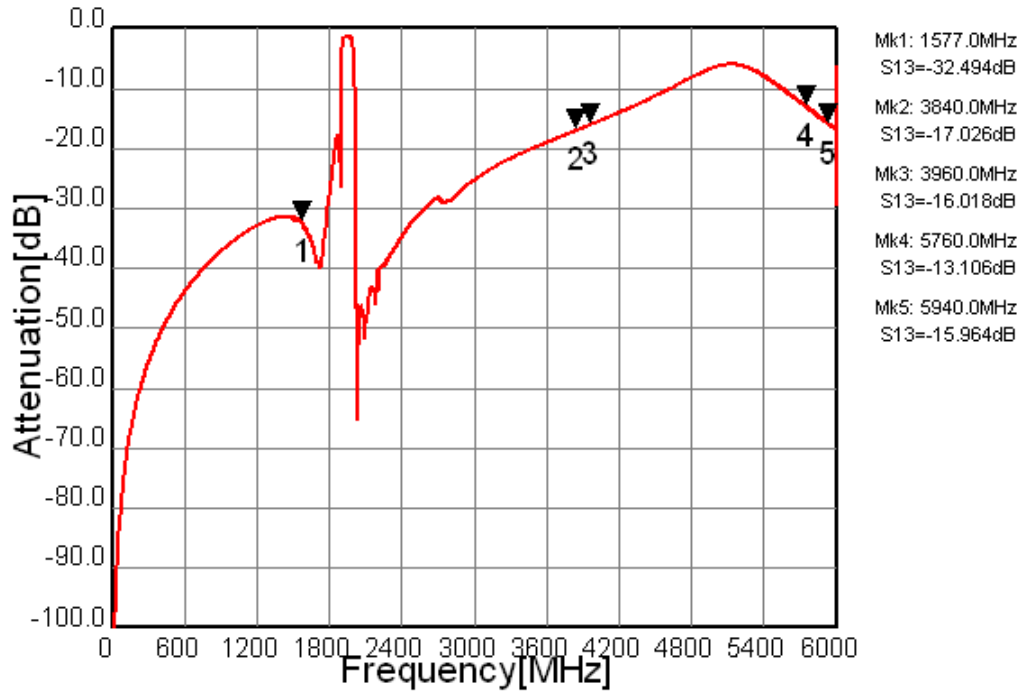


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Tx to Ant (Wide span)



Ant to Rx (Wide span)

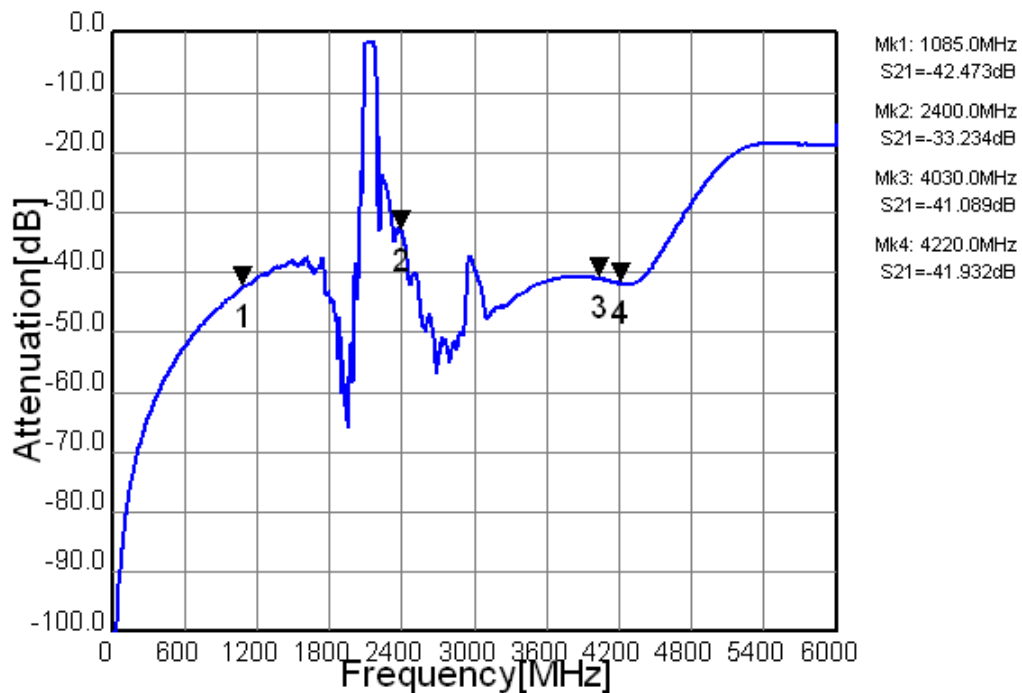


Figure 3-6. Electrical Characteristics