



Pb-free  
\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band IV Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1325-B1YZ	Version2.0ee	

**Table 1-1. Electrical Specification**

Item		Condition (MHz)	Specification			Unit	Remarks	
			Min	Typ	Max			
Tx to ANT	Insertion loss	1710~1755	-	1.5	1.7	dB (*1)		
	Ripple	1710~1755	-	0.4	0.8		dB	
	VSWR	ANT	1710~1755	-	1.4	2.0	-	
				Tx	-	1.6	2.0	-
	Input Power	1710~1755	+29dBm, Ta=+50degC 50kh, CW			dBm		
	Absolute attenuation	300~1574	30	41	-	dB		
		1574~1577	41	46	-	dB		
		1805~1880	30	50	-	dB		
		1930~1990	44	50	-	dB		
		2110~2155	45	50	-	dB		
2400~2500		35	40	-	dB			
3420~3510		20	30	-	dB			
5130~5265	12	23	-	dB				
ANT to Rx	Insertion loss	2110~2155	-	1.7	2.0	dB (*1)		
	Ripple	2110~2155	-	0.5	0.8		dB	
	Phase balance	2110~2155	-12	-2/+7	+12	deg		
	Amplitude balance	2110~2155	-1.0	-0.2/+0.3	+1.0	dB		
	VSWR	Ant	2110~2155	-	1.6	2.0	-	
		Rx		-	1.4	2.0	-	
	Absolute attenuation	300~1710	40	55	-	dB		
		1710~1755	48	52	-	dB		
1755~2025		30	39	-	dB			
2240~2400		20	26	-	dB			
2400~2484		30	36	-	dB			
2484~6000	35	41	-	dB				
Tx to Rx	Isolation	1710~1755	54	57	-	dB		
		2110~2155	48	51	-	dB		
Terminating Impedance		Tx port	50			Ohm	Single-ended	
		Rx port	100 // 15nH			Ohm	Differential	
		Ant port	50 // 3.3nH			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 1.7GHz=0.1dB, 2.1GHz=0.15dB)



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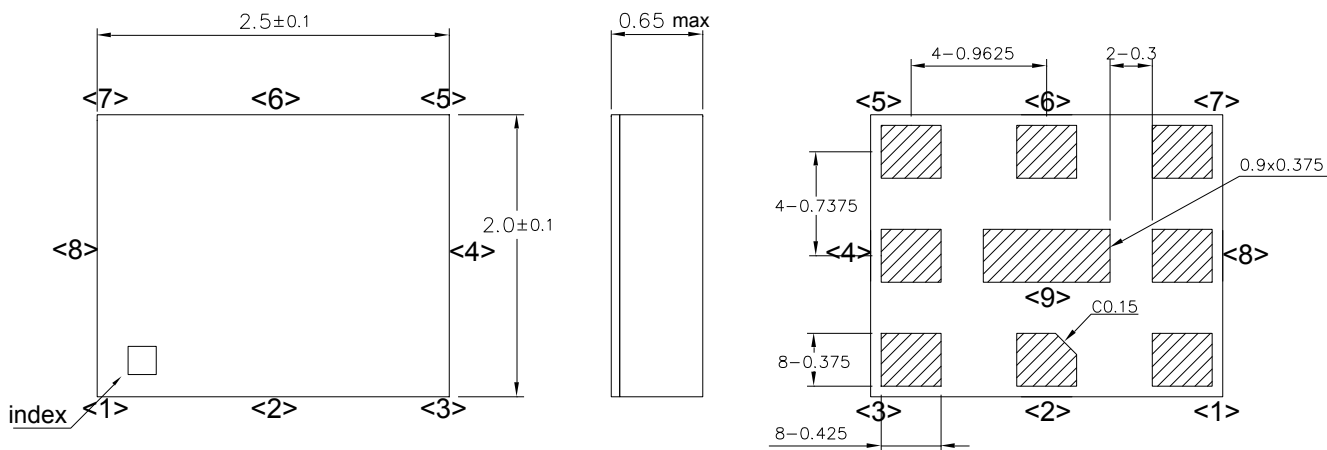
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### Dimensions



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**





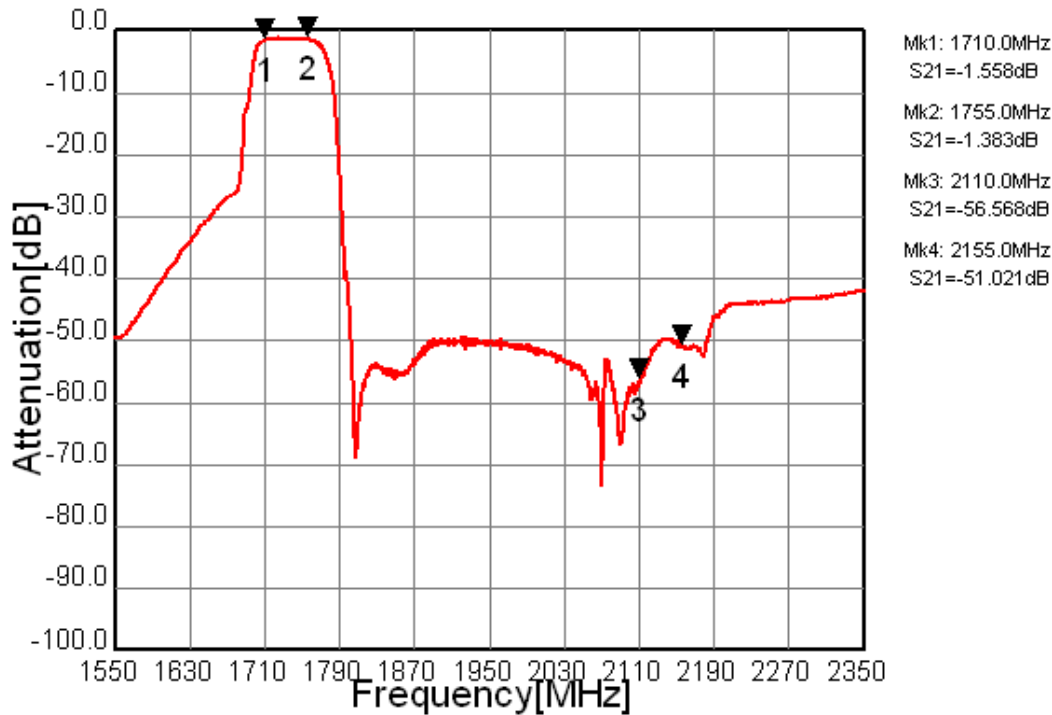
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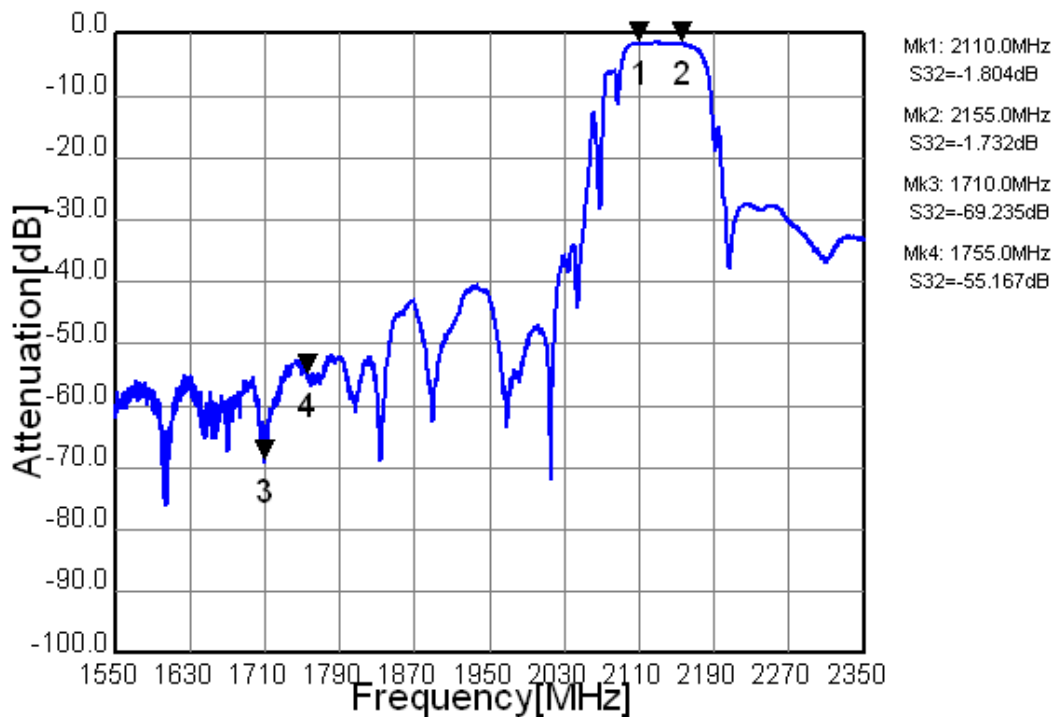
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## Tx to Ant



## Ant to Rx



**Figure 3-1. Electrical Characteristics**

These data **include** loss that comes from the test board. (approximately 1.7GHz=0.1dB, 2.1GHz=0.15dB)



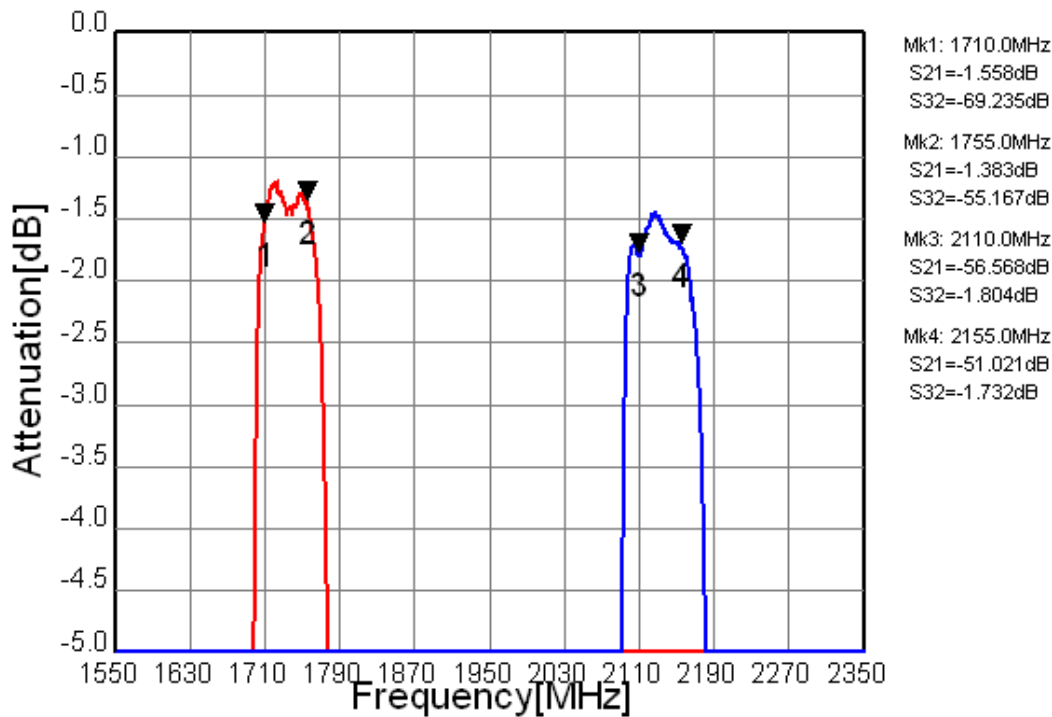
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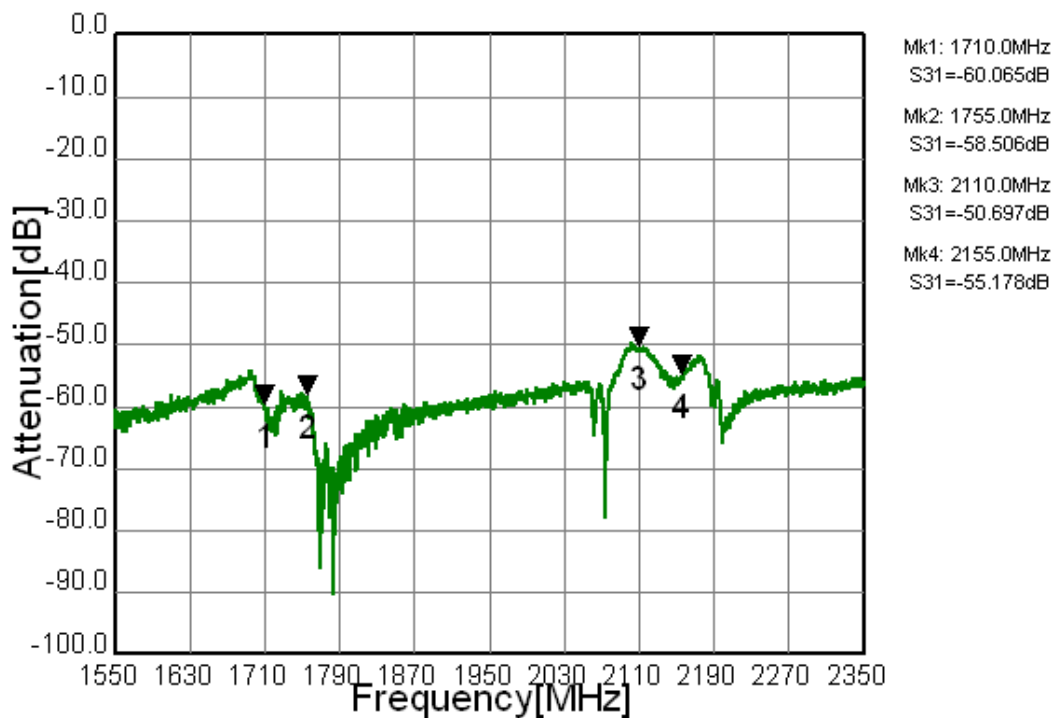
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## Tx to Ant, Ant to Rx



## Tx to Rx Isolation



**Figure 3-2. Electrical Characteristics**

These data **include** loss that comes from the test board. (approximately 1.7GHz=0.1dB, 2.1GHz=0.15dB)



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## Tx Port

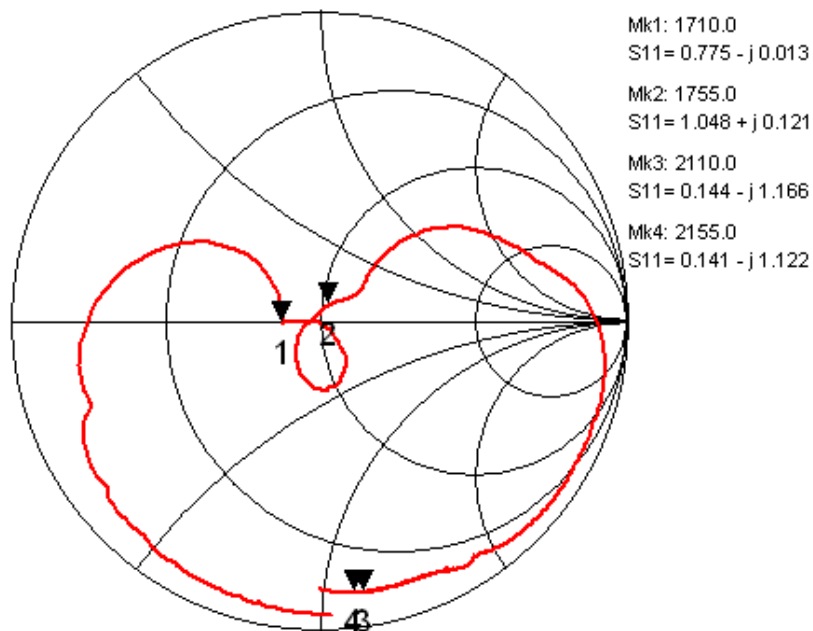
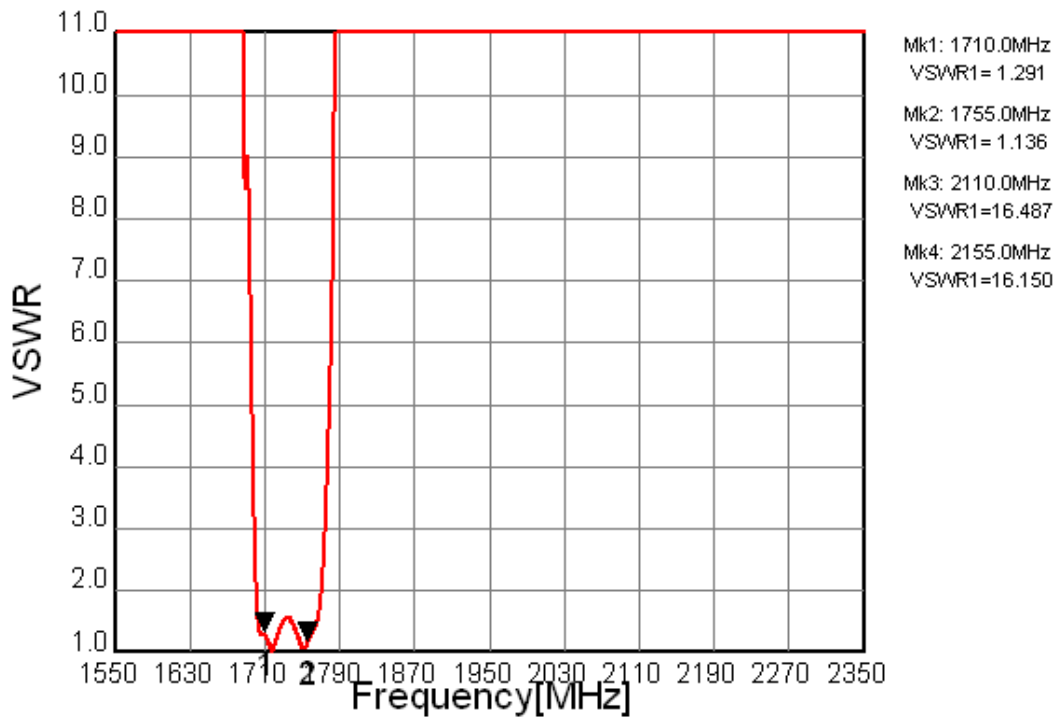


Figure 3-3. Electrical Characteristics



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## Rx Port

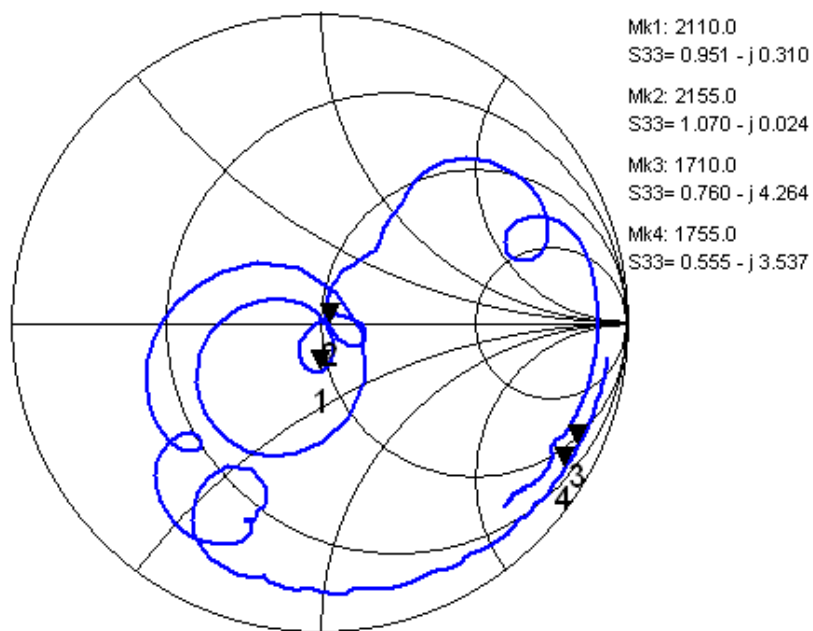
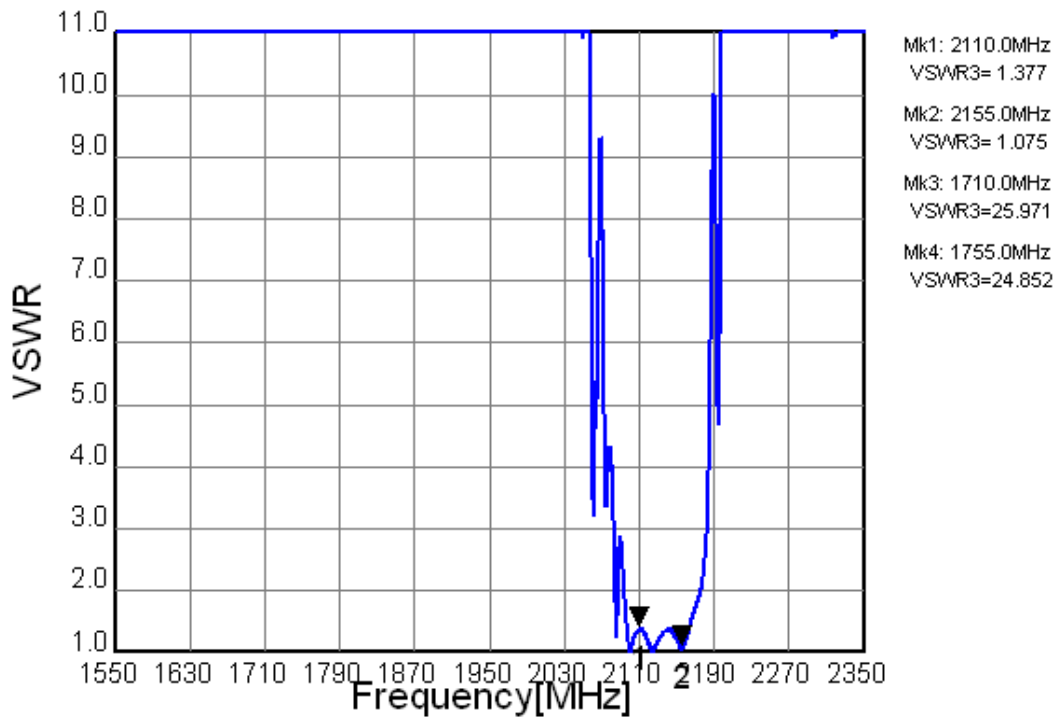


Figure 3-4. Electrical Characteristics



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## Ant Port

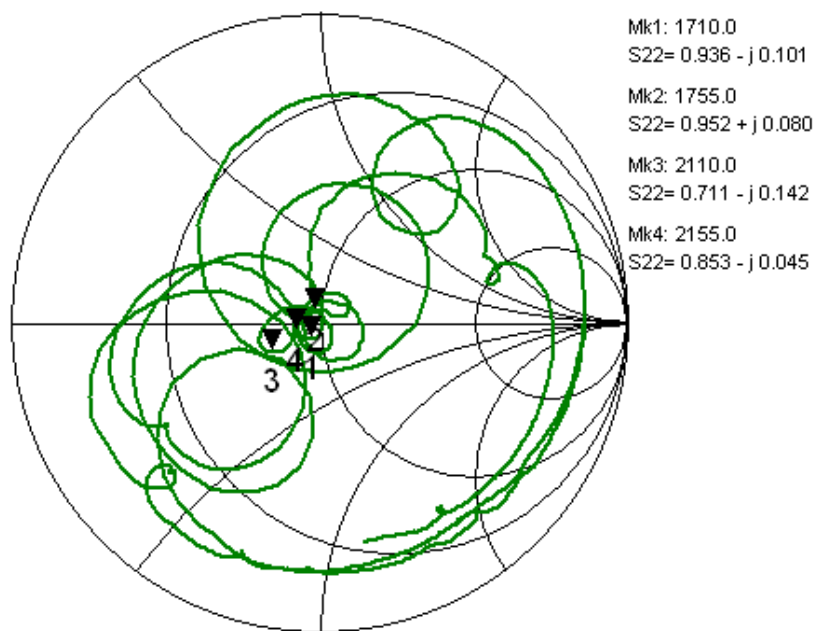
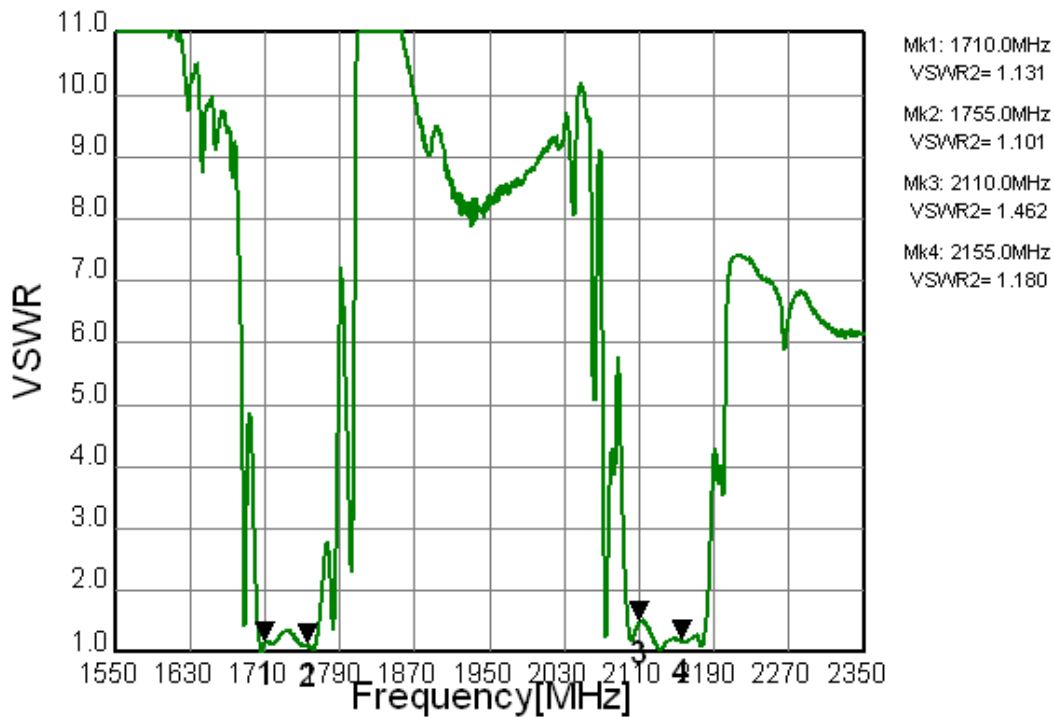


Figure 3-5. Electrical Characteristics





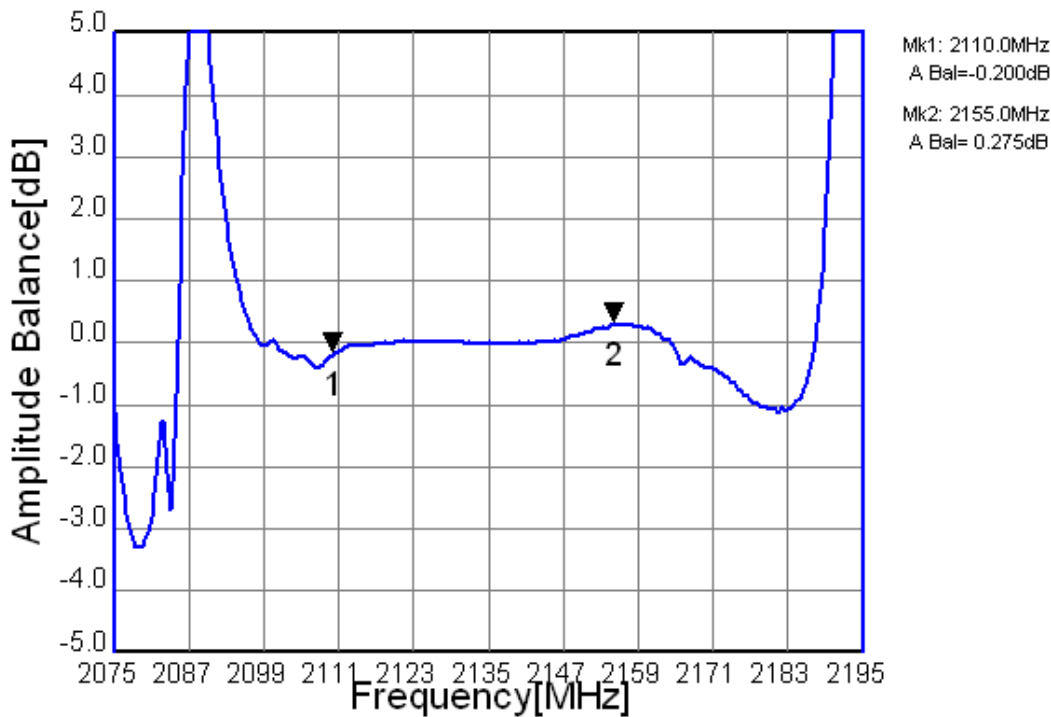
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### Ant to Rx (Amplitude balance)



### Ant to Rx (Phase balance)

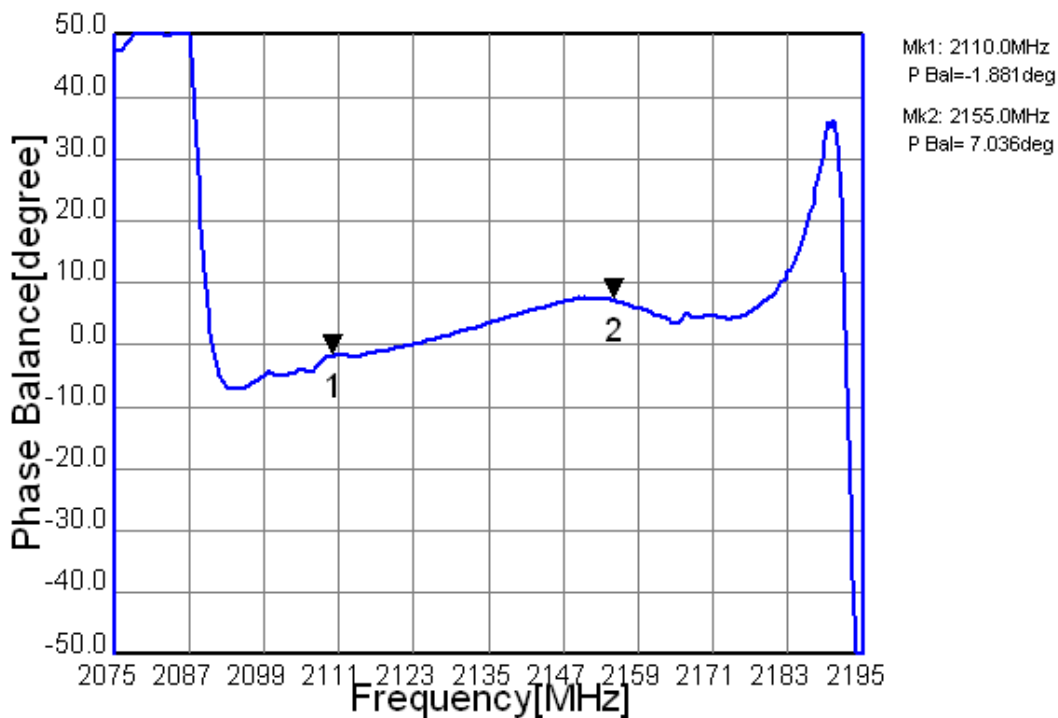


Figure 3-6. Electrical Characteristics



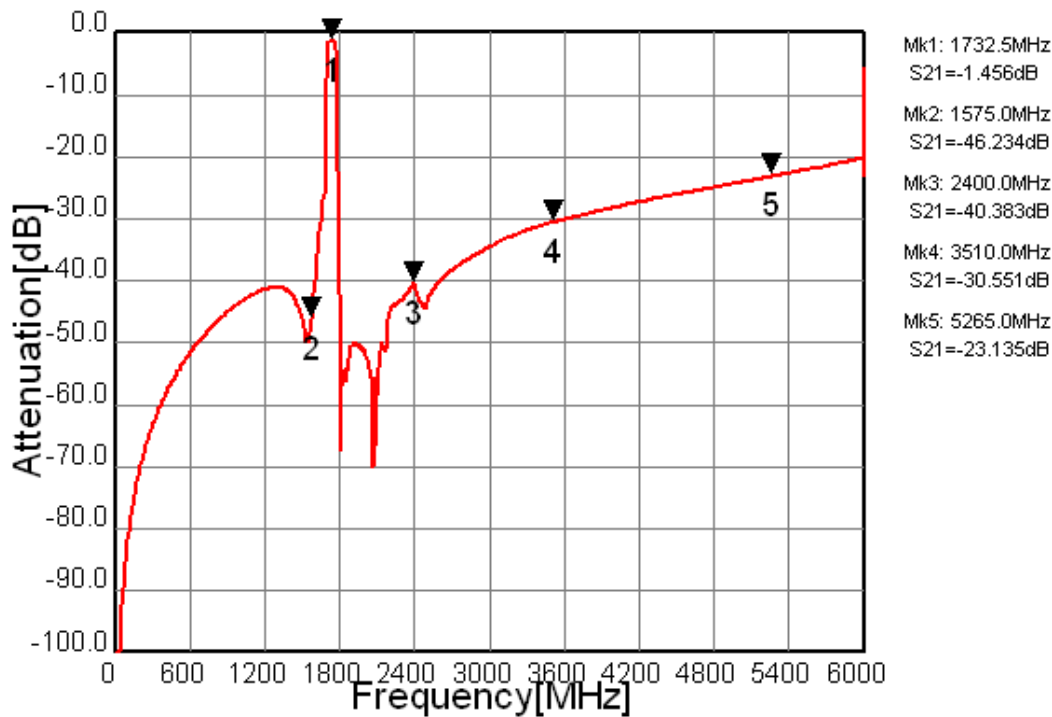
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### Tx to Ant (Wide span)



### Ant to Rx (Wide span)

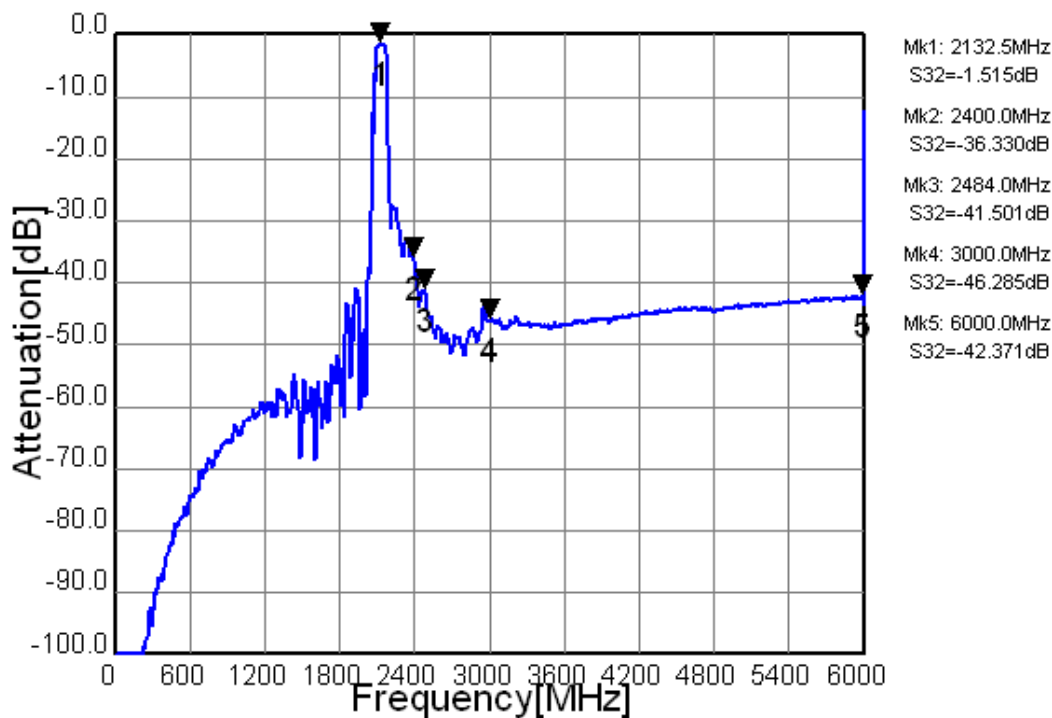


Figure 3-7. Electrical Characteristics