



* 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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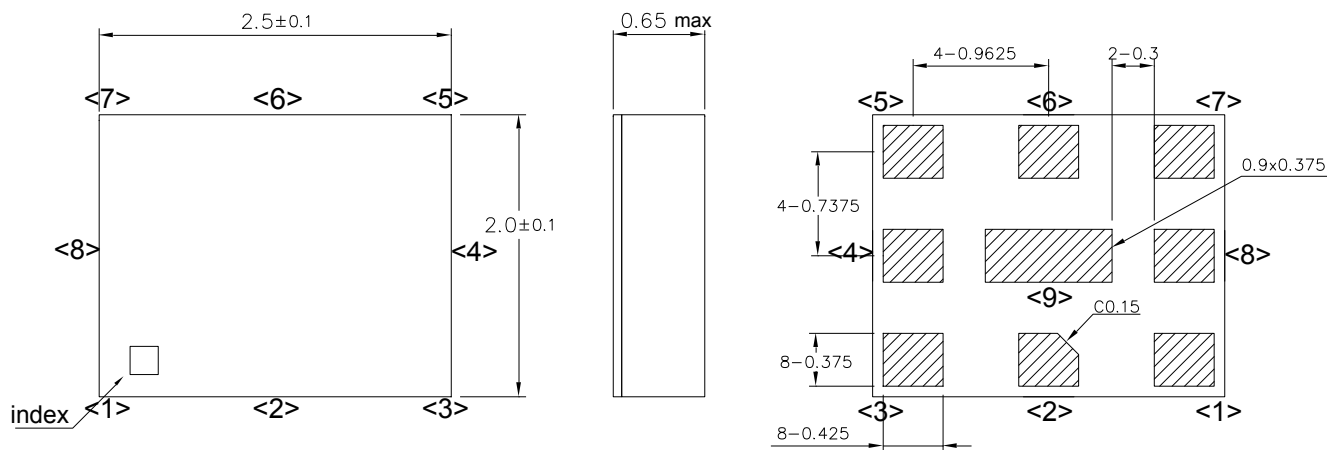
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Dimensions



Unit: mm

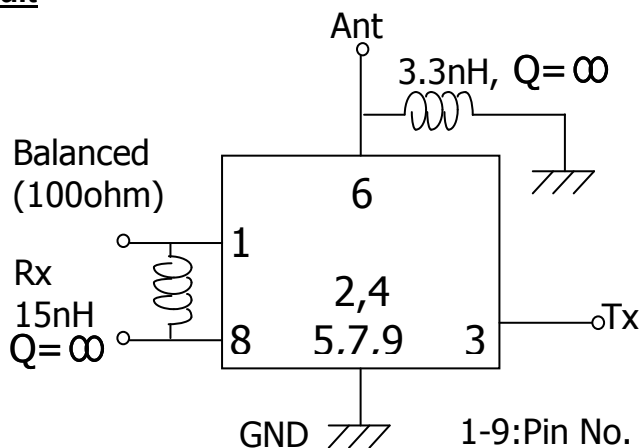
Pin Configuration

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



Evaluation Circuit



External appearance in Chip carrier

Common GND

Unit: mm

Figure 2. Recommended foot print pattern

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Tx to Ant



Ant to Rx

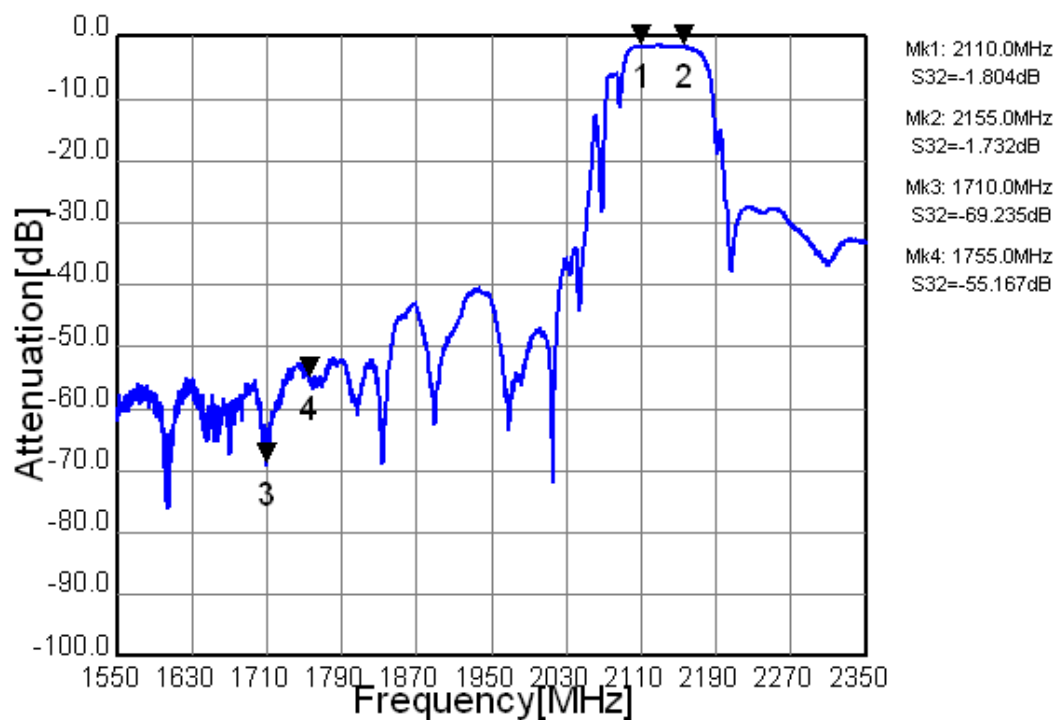


Figure 3-1. Electrical Characteristics

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

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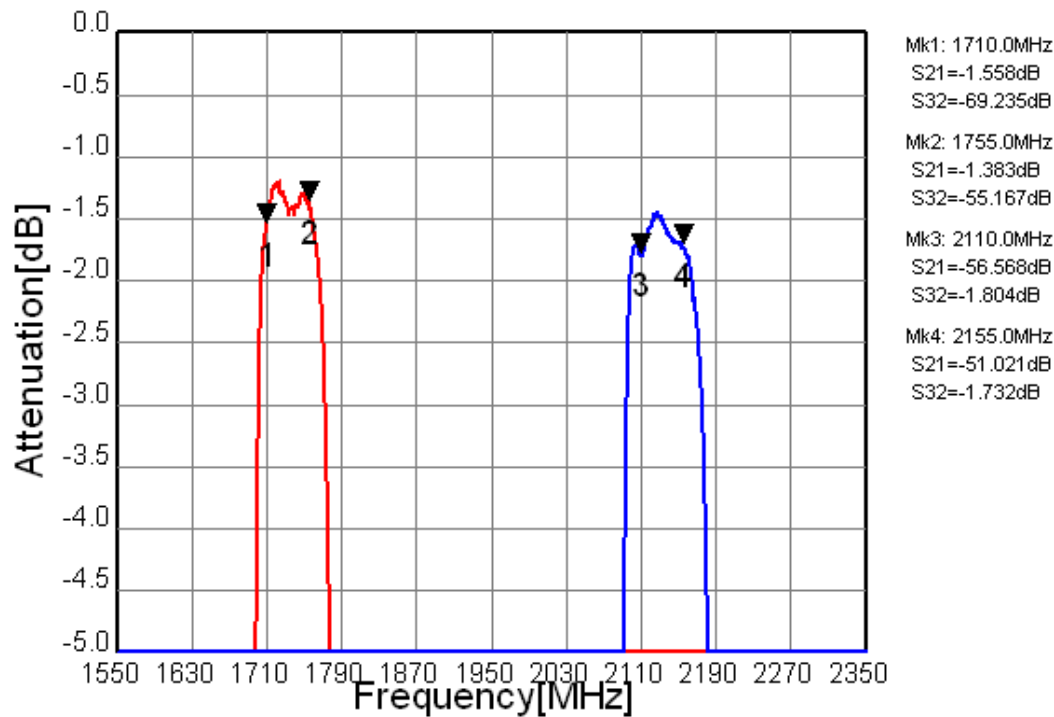
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

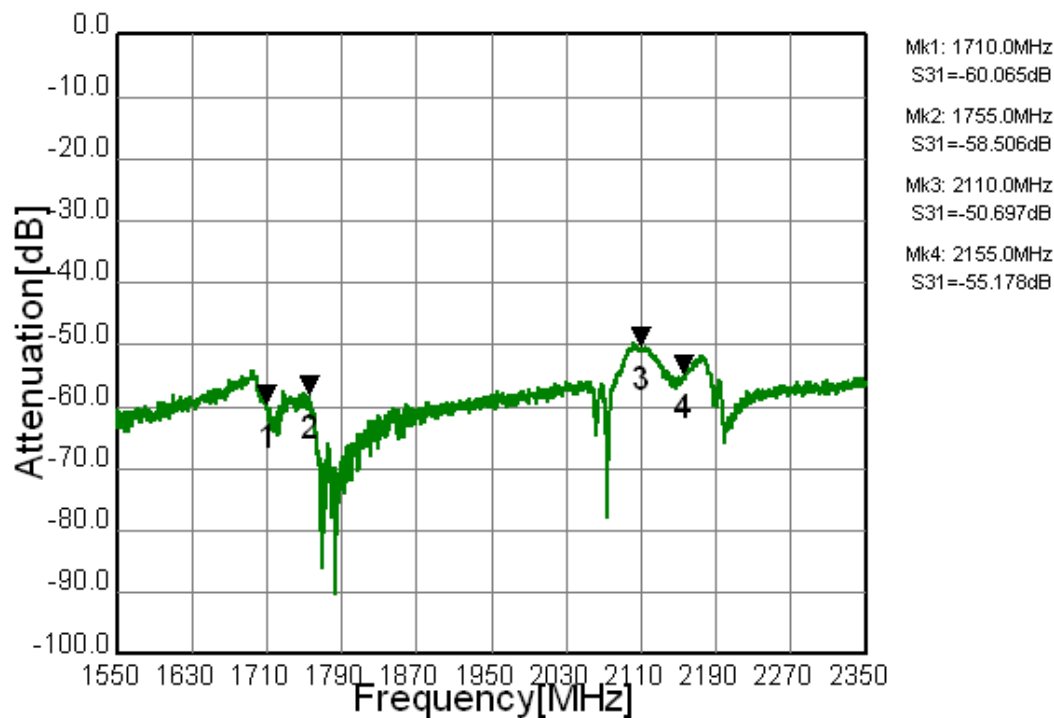


Figure 3-2. Electrical Characteristics

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

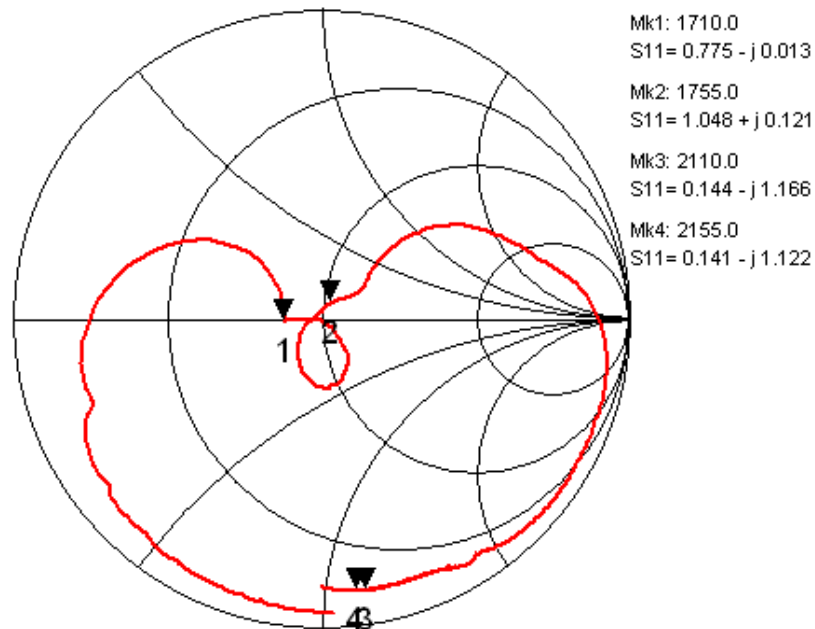
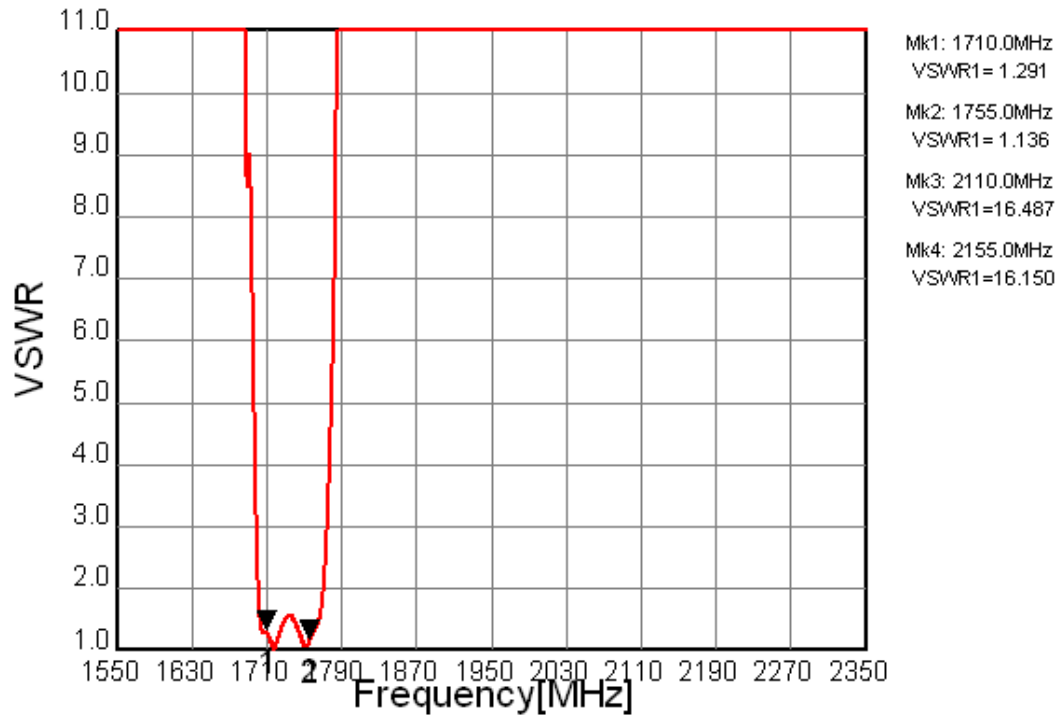


Figure 3-3. Electrical Characteristics



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Rx Port

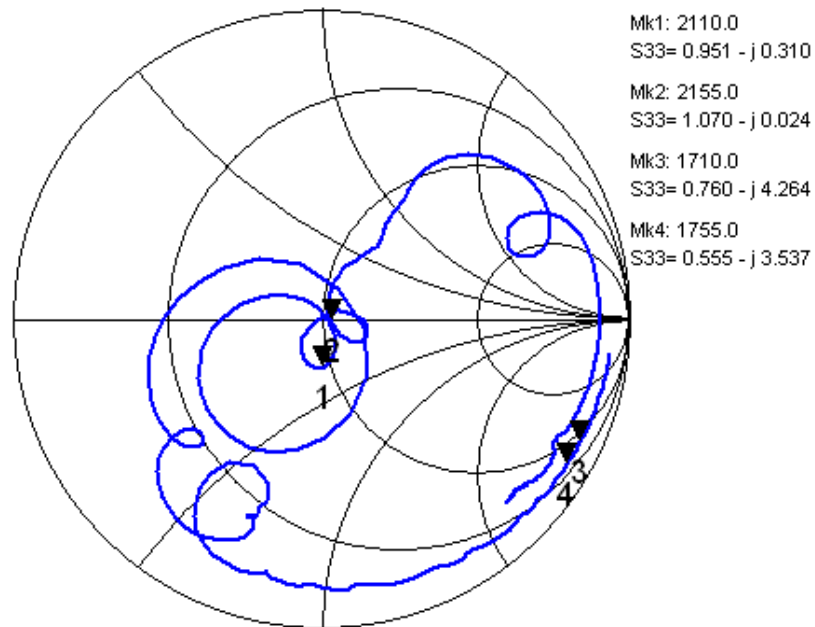
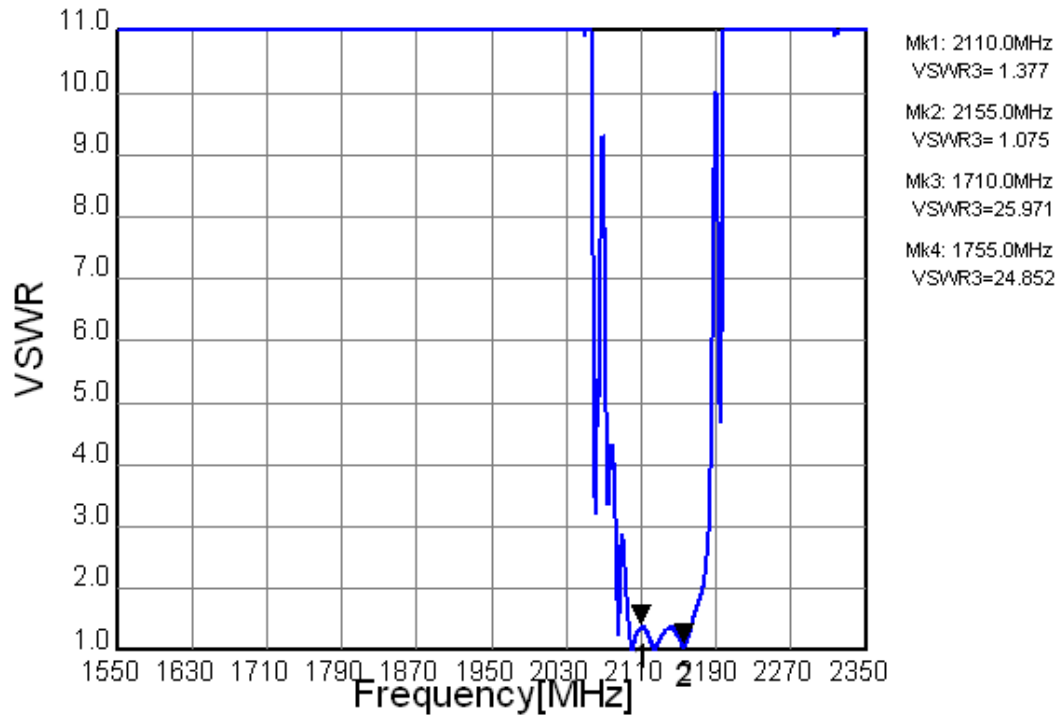


Figure 3-4. Electrical Characteristics



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Ant Port

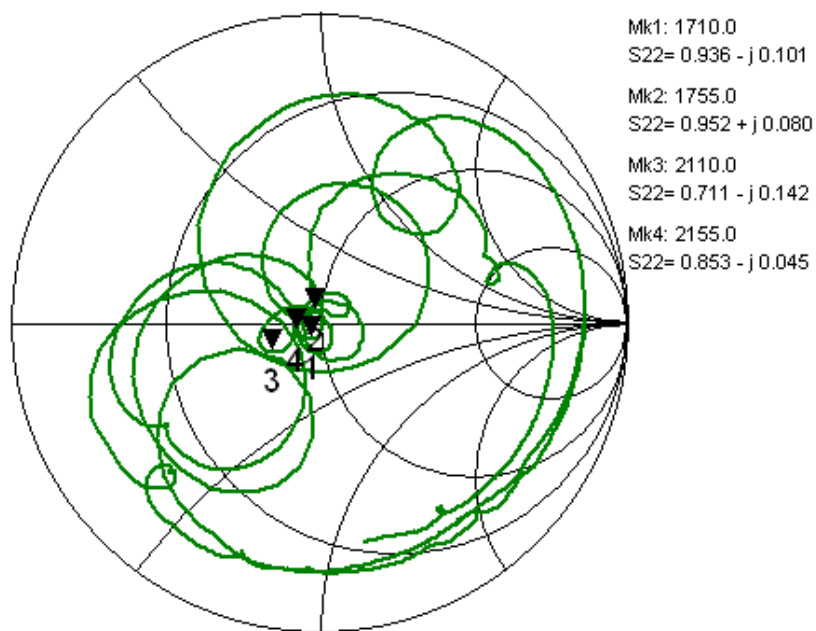
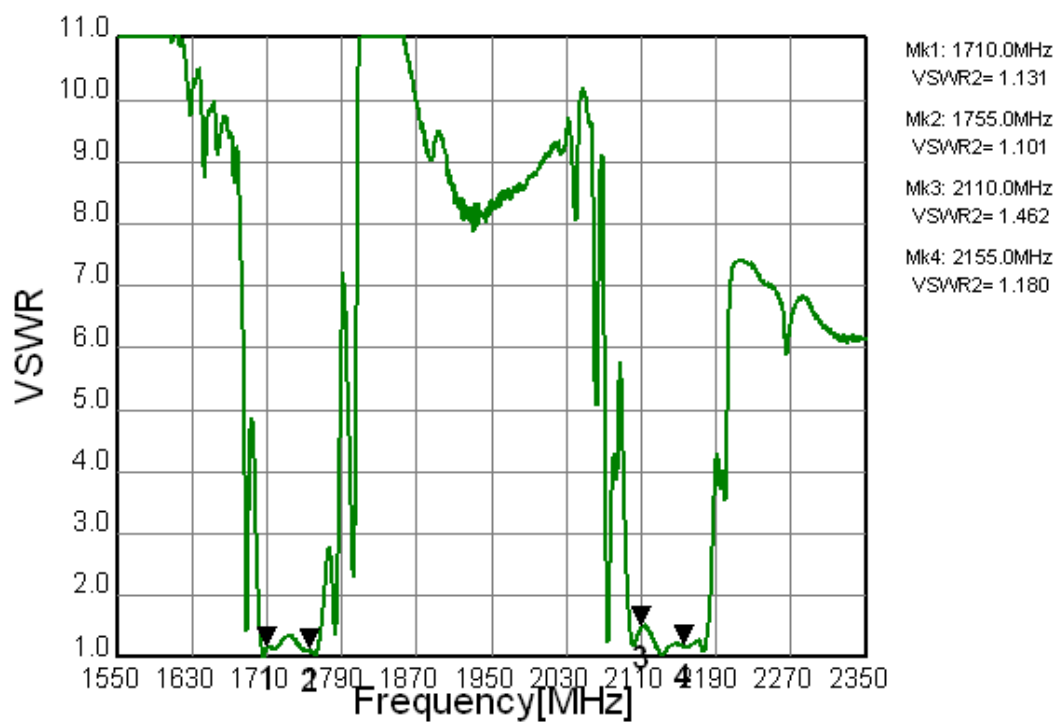


Figure 3-5. Electrical Characteristics

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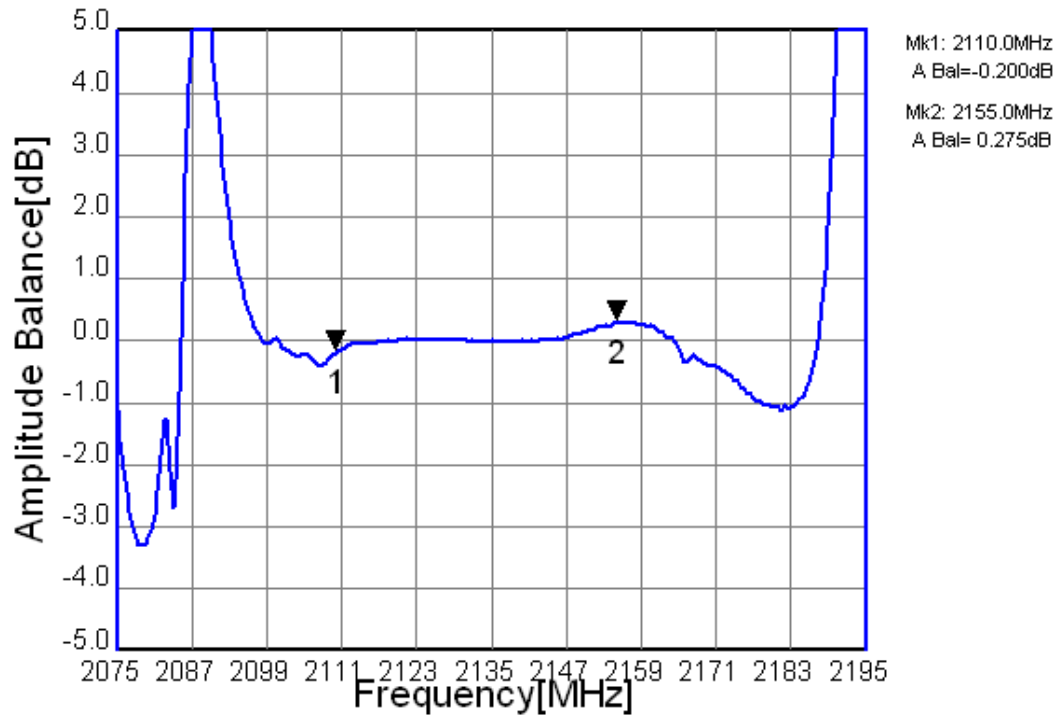
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Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

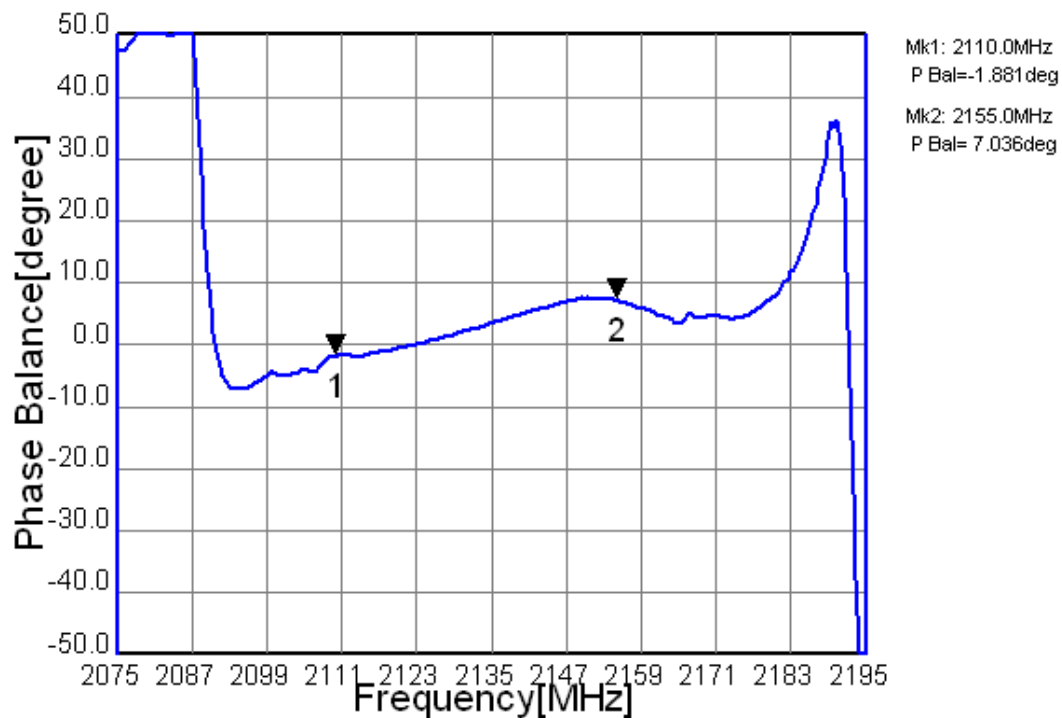


Figure 3-6. Electrical Characteristics



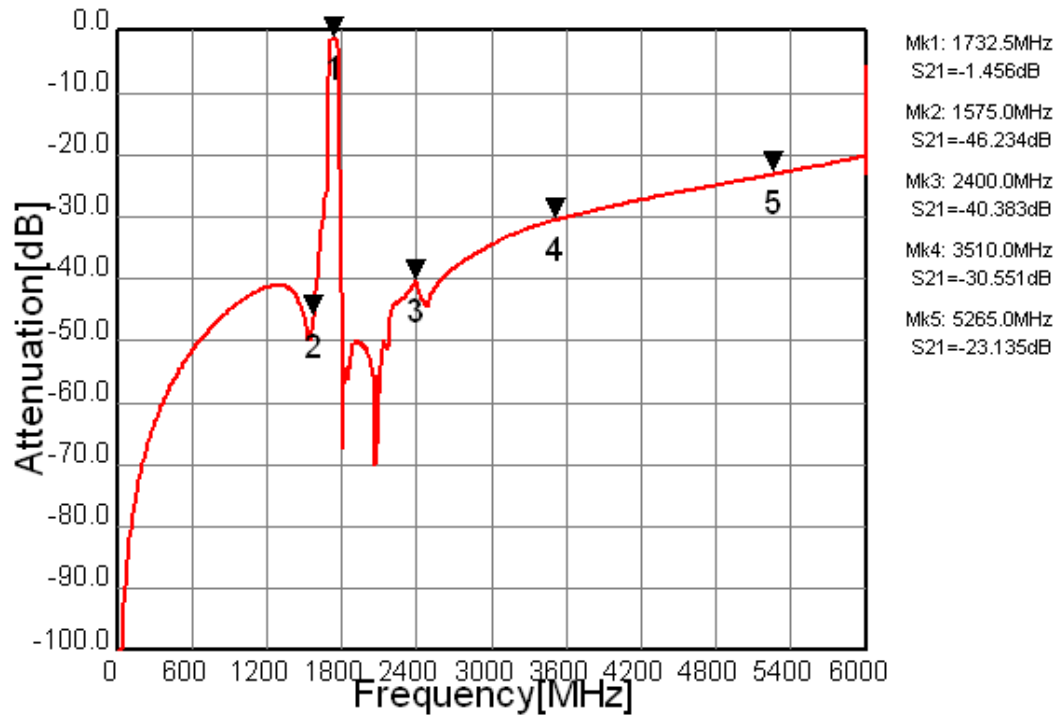
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Tx to Ant (Wide span)



Ant to Rx (Wide span)

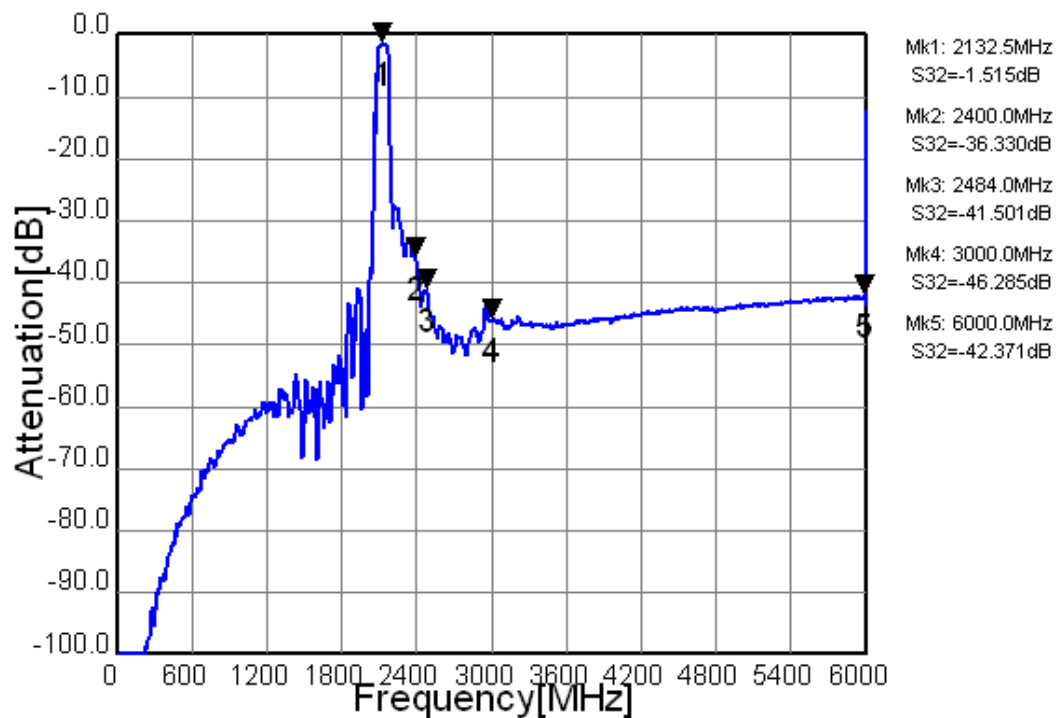


Figure 3-7. Electrical Characteristics

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