



* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band II (PCS) Duplexer	Date	March 31, 2010
Part Number	FAR-D6NF-1G9600-P1BT	Version 2.1db	

Table 1. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks	
			Min	Typ	Max			
Tx to ANT	Insertion loss	1850.4~1909.6	-	2.5	3.2	dB	-20 to +85 °C	
		1850.6~1909.4	-	2.5	3.2		(*1)	
	Ripple	1850.4~1909.6	-	0.9	2.0	dB		
	VSWR	ANT	1850.4~1909.6	-	1.7	2.1	-	
		Tx		-	1.6	2.0	-	
	Input Power	1850.4~1909.6	+29dBm, Ta=+50°C, 50kh, CW			dBm		
	Absolute attenuation	1570~1580	38	40	-	dB		
1930.4~1989.6		42	51	-	dB	-20 to +85 °C		
1930.6~1989.4		39	51	-	dB			
3700~3820		25	32	-	dB			
5550~5730		17	24	-	dB			
ANT to Rx	Insertion loss	1930.4~1989.6	-	2.8	3.7	dB	-20 to +85 °C	
		1930.6~1989.4	-	2.8	3.7		(*1)	
	Ripple	1930.4~1989.6	-	1.1	2.2	dB		
	Phase balance	1930.4~1989.6	-	-1 +5	-	deg		
	Amplitude balance	1930.4~1989.6	-	-0.4 +0.4	-	dB		
	VSWR	Ant	1930.4~1989.6	-	1.7	2.0	-	
		Rx		-	1.9	2.2	-	
Absolute attenuation	1850.4~1909.6	45	52	-	dB	-20 to +85 °C		
	1850.6~1909.4	46	52	-	dB			
Tx to Rx	Isolation	1850.4~1909.6	51	54	-	dB	-20 to +85 °C	
		1850.6~1909.4	51	54	-	dB		
		1930.4~1989.6	48	55	-	dB	-20 to +85 °C	
		1930.6~1989.4	44	55	-	dB		
Terminating Impedance	Tx port	50			Ohm	Single-ended		
	Rx port	100			Ohm	Differential		
	Ant port	50			Ohm	Single-ended		
Operating Temperature		-30 to +85			°C			
Device size (L typ. x W typ. x H max.)		2.5x2.0x0.65			mm			

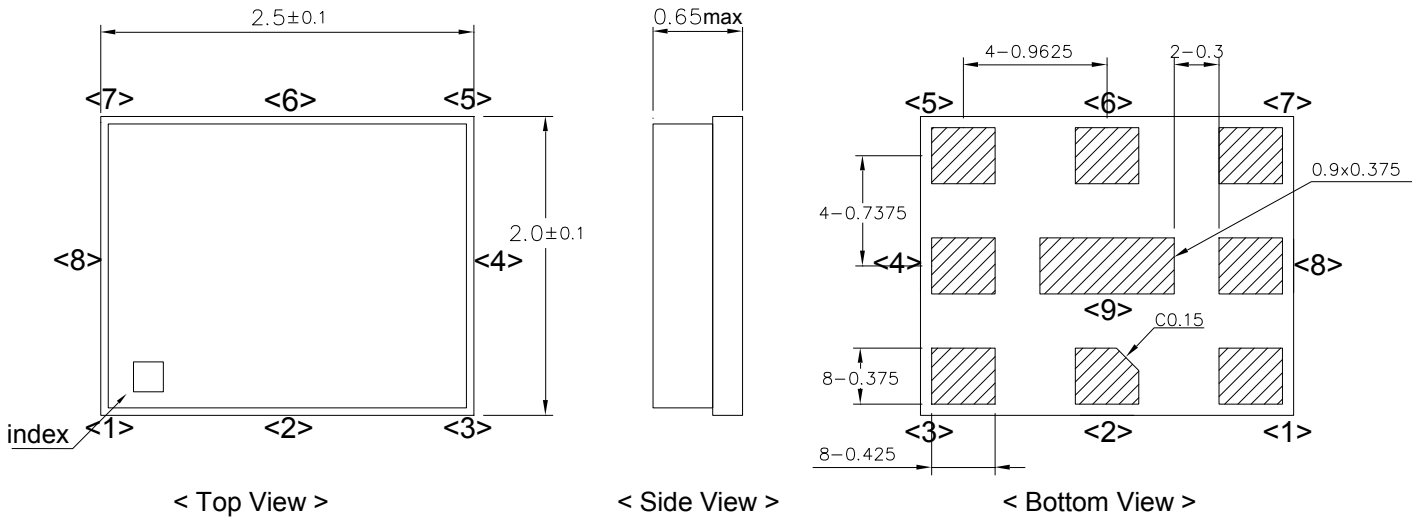
(*1) Specification of insertion loss excludes loss that comes from the test board. (Approximately 0.15dB)



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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

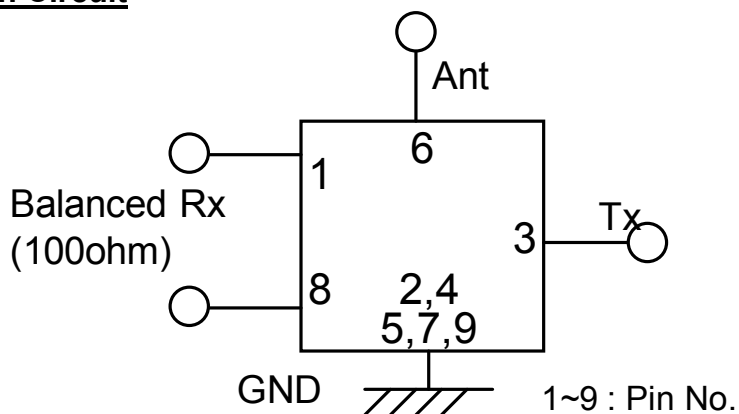


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Evaluation Circuit



Recommended foot print pattern

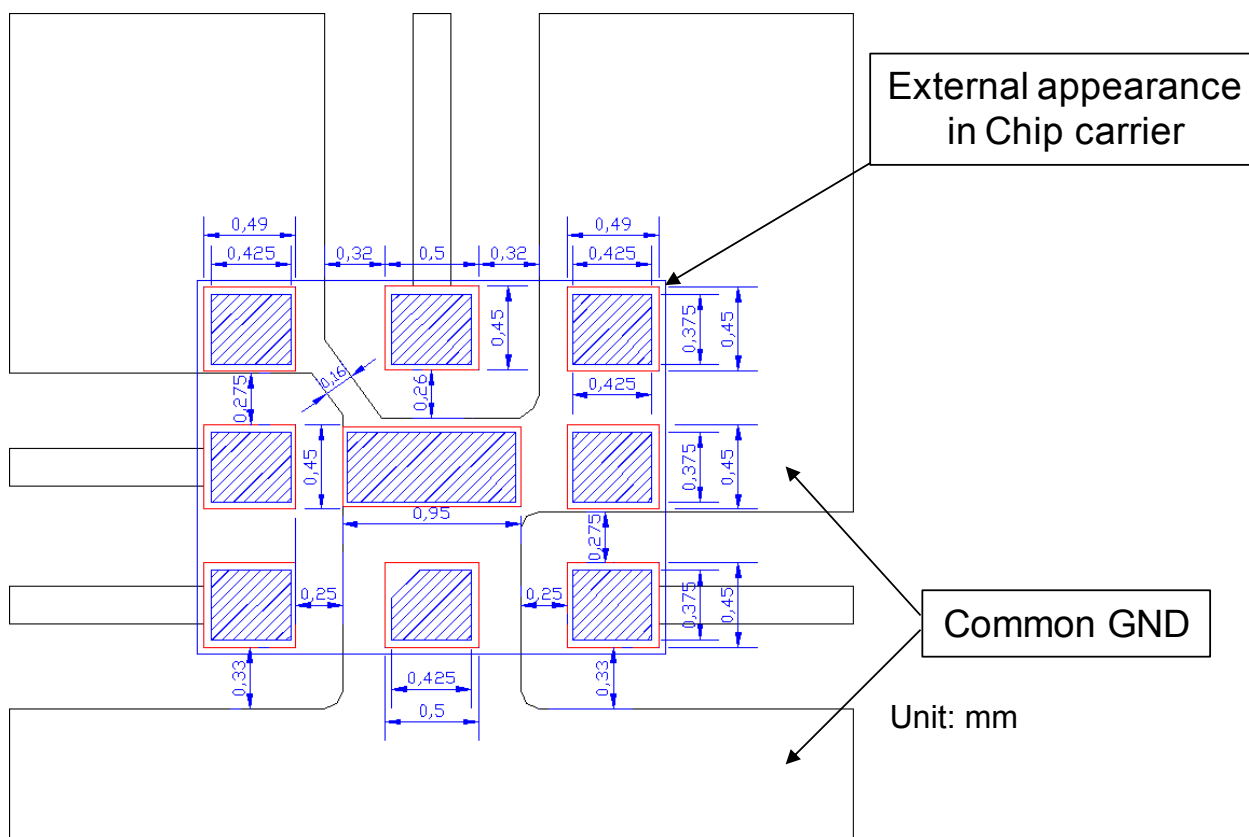


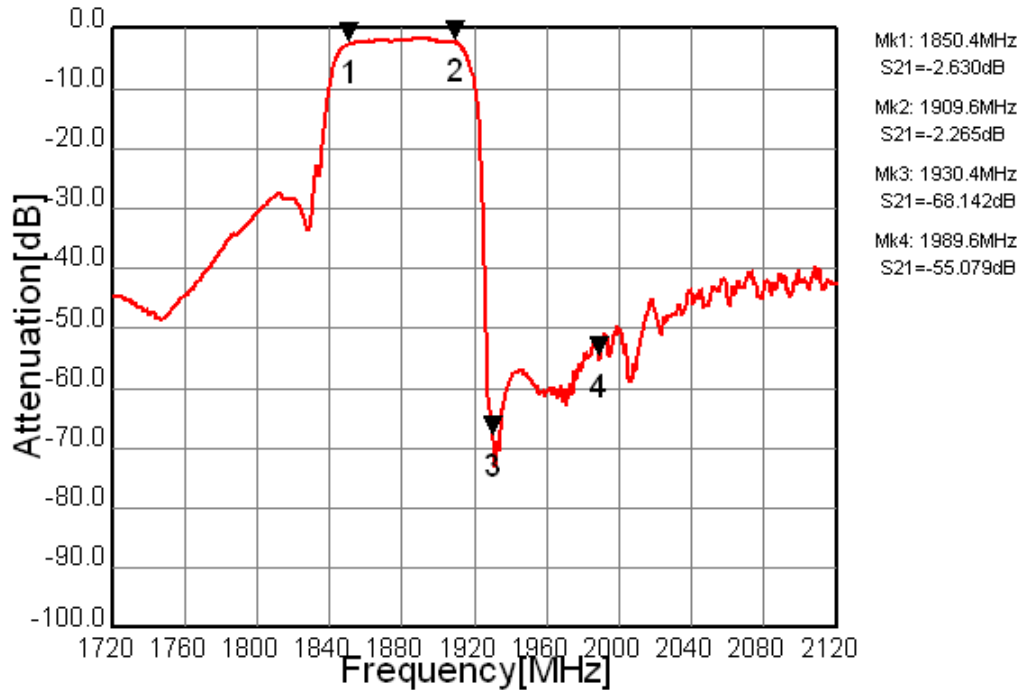
Figure 2. Recommended foot print pattern



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Tx to Ant



Ant to Rx

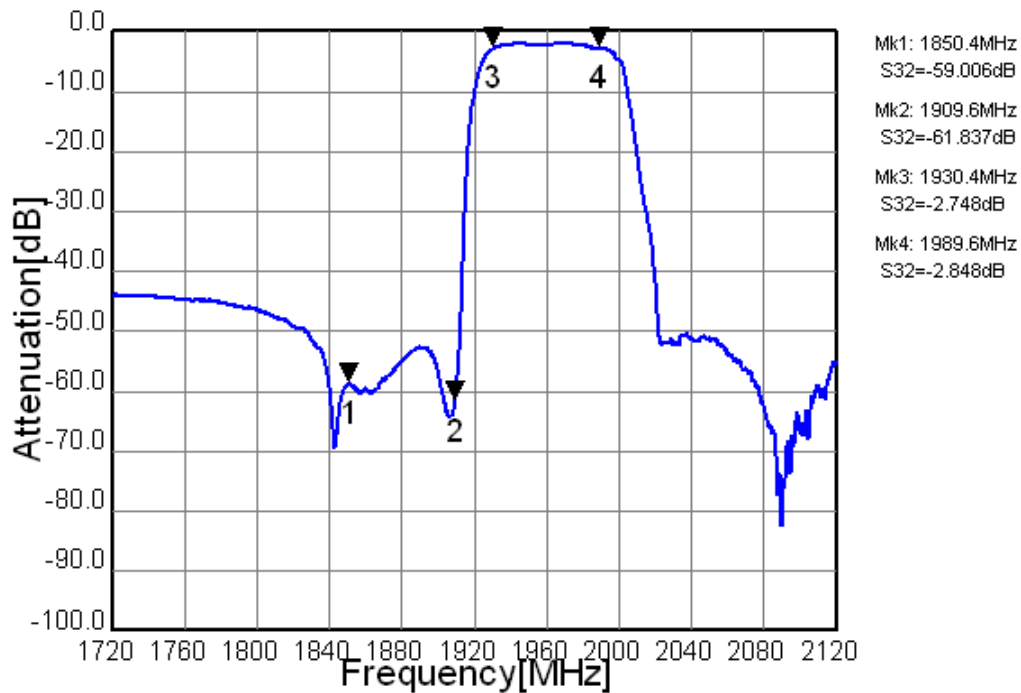


Figure 3-1. Electrical Characteristics

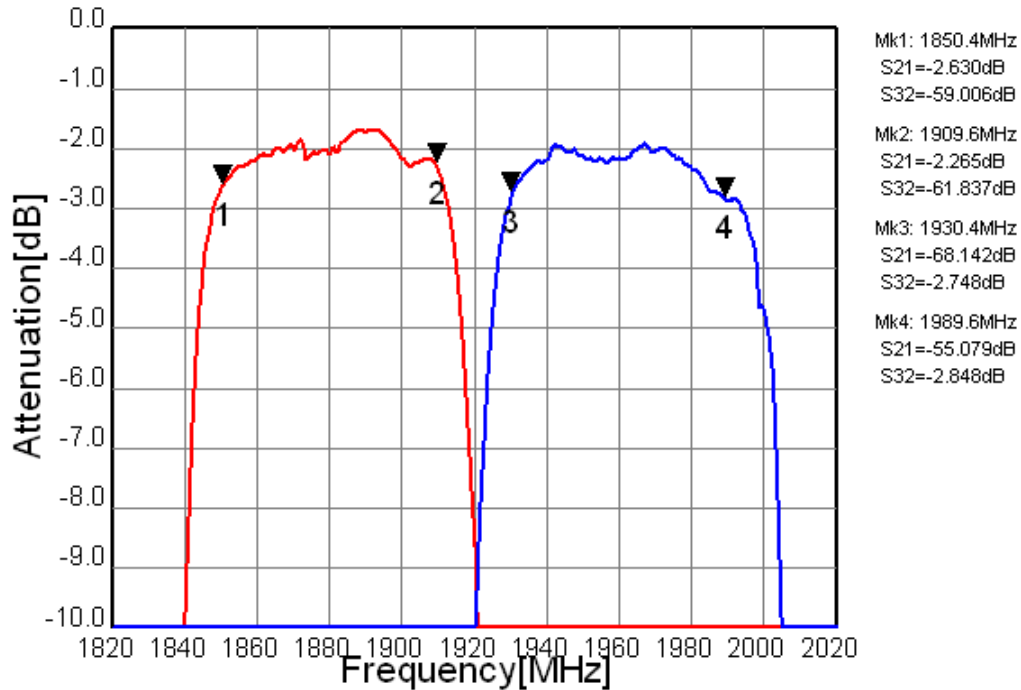
These data include loss that comes from the test board. (Approximately 0.15dB)



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Tx to Ant, Ant to Rx



Tx to Rx Isolation

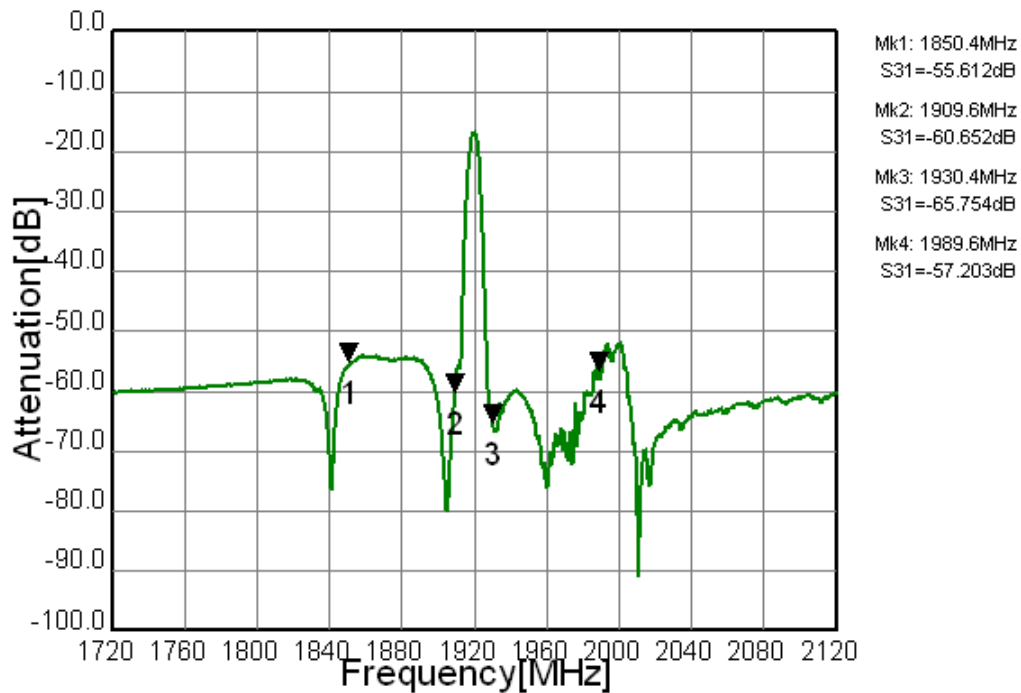


Figure 3-2. Electrical Characteristics

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



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Tx Port

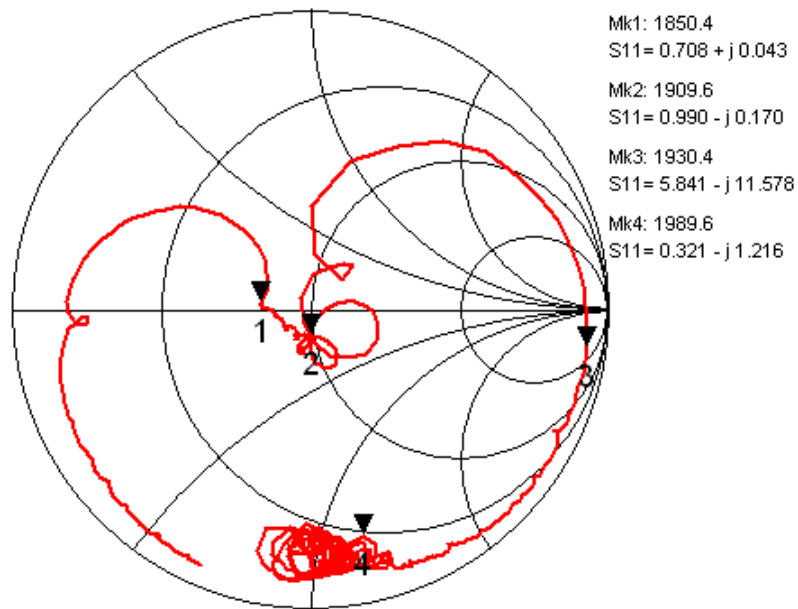
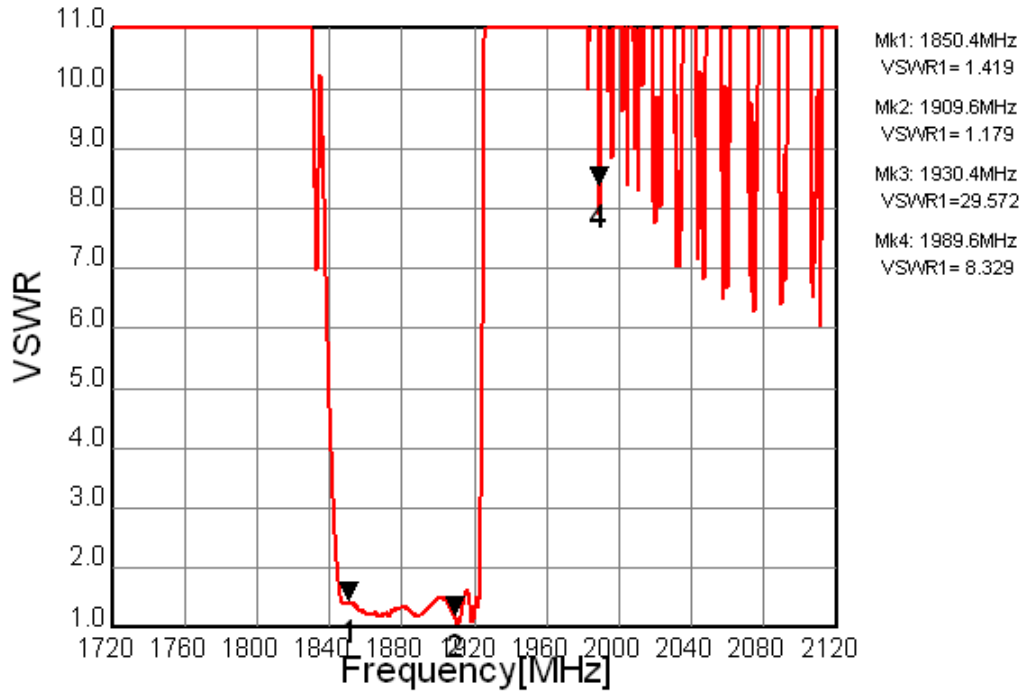


Figure 3-3. Electrical Characteristics



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Rx Port

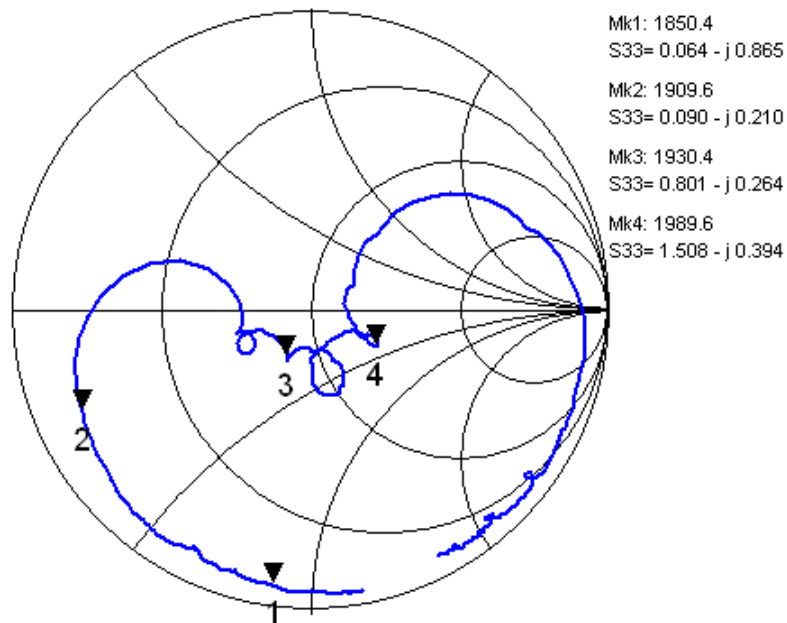
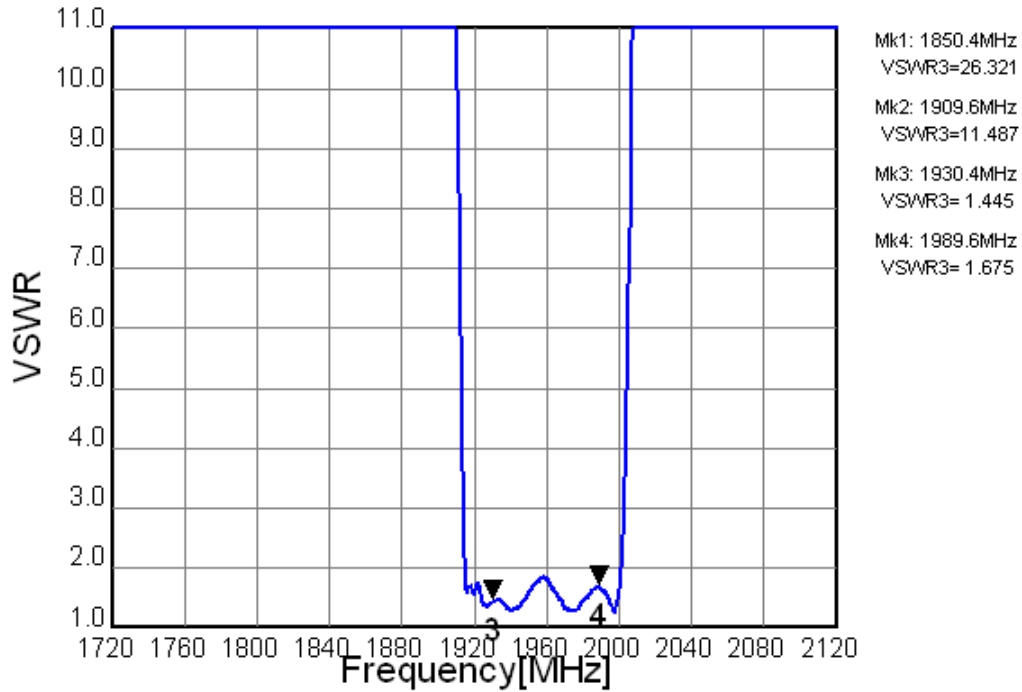


Figure 3-4. Electrical Characteristics



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Ant Port

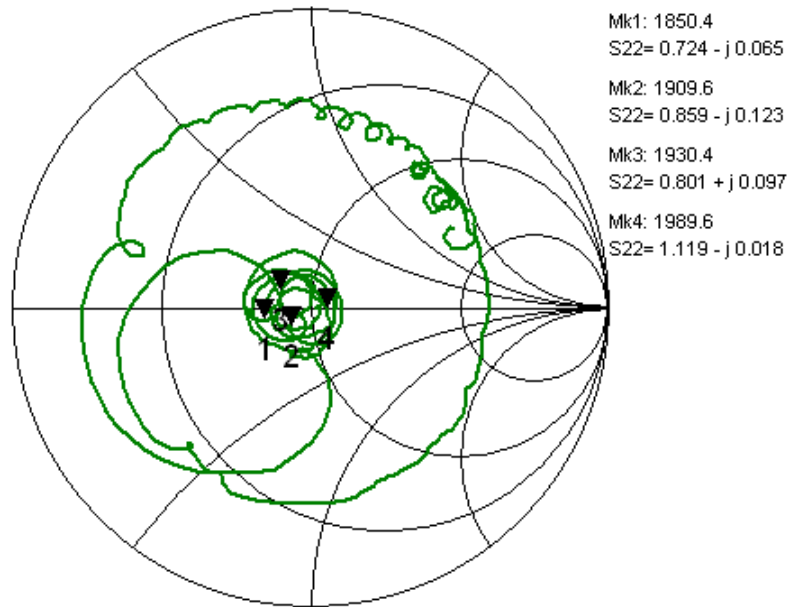


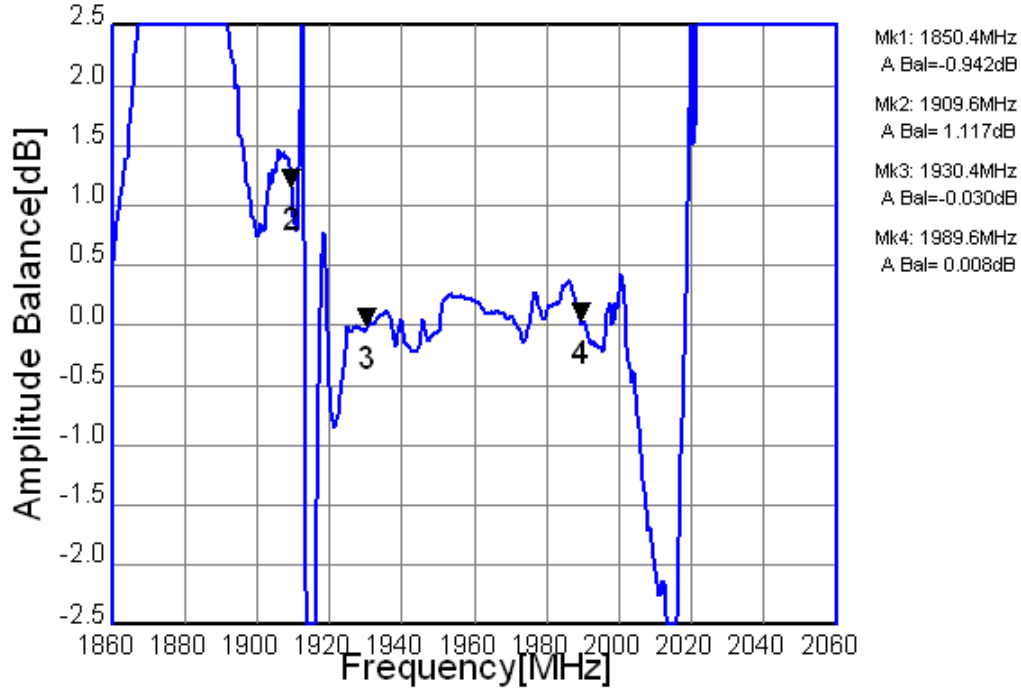
Figure 3-5. Electrical Characteristics



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Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

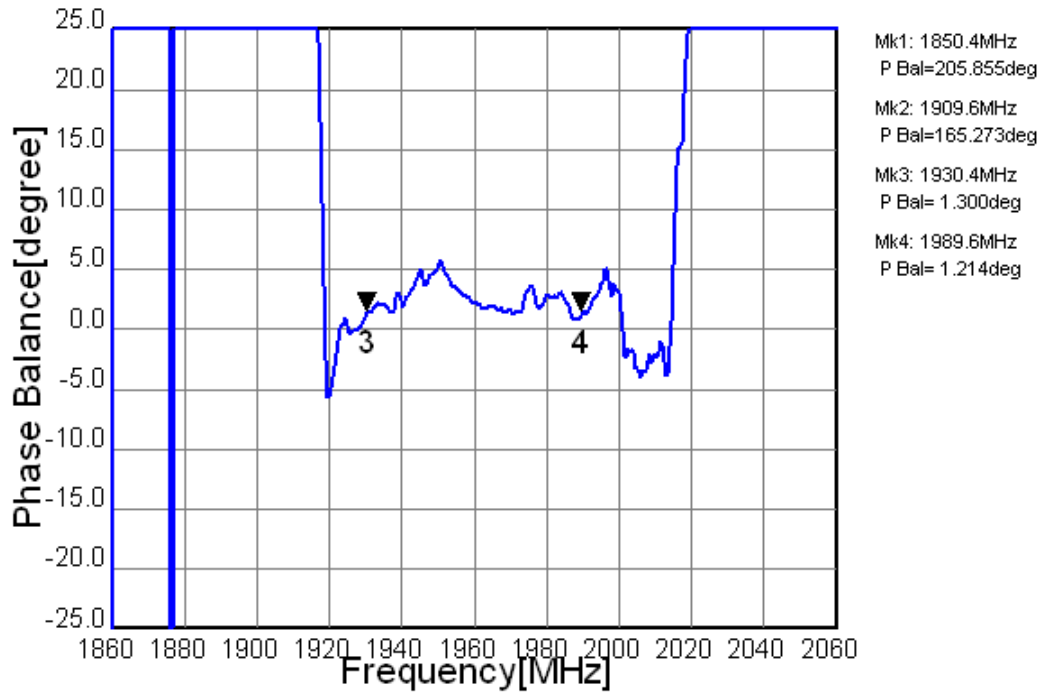


Figure 3-6. Electrical Characteristics

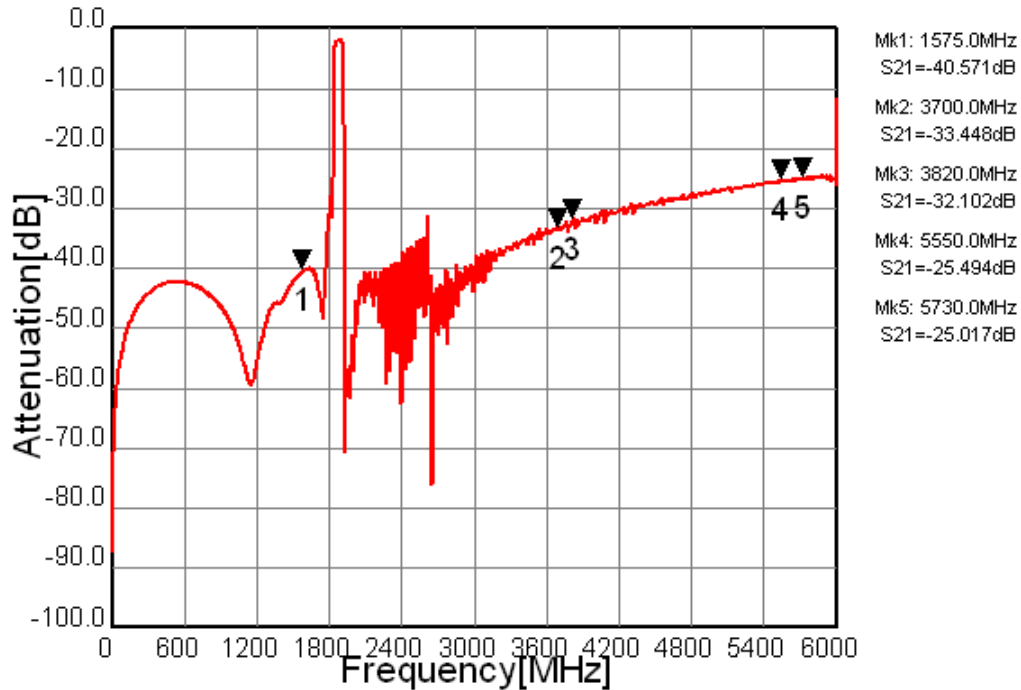


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Tx to Ant (Wide span)



Ant to Rx (Wide span)

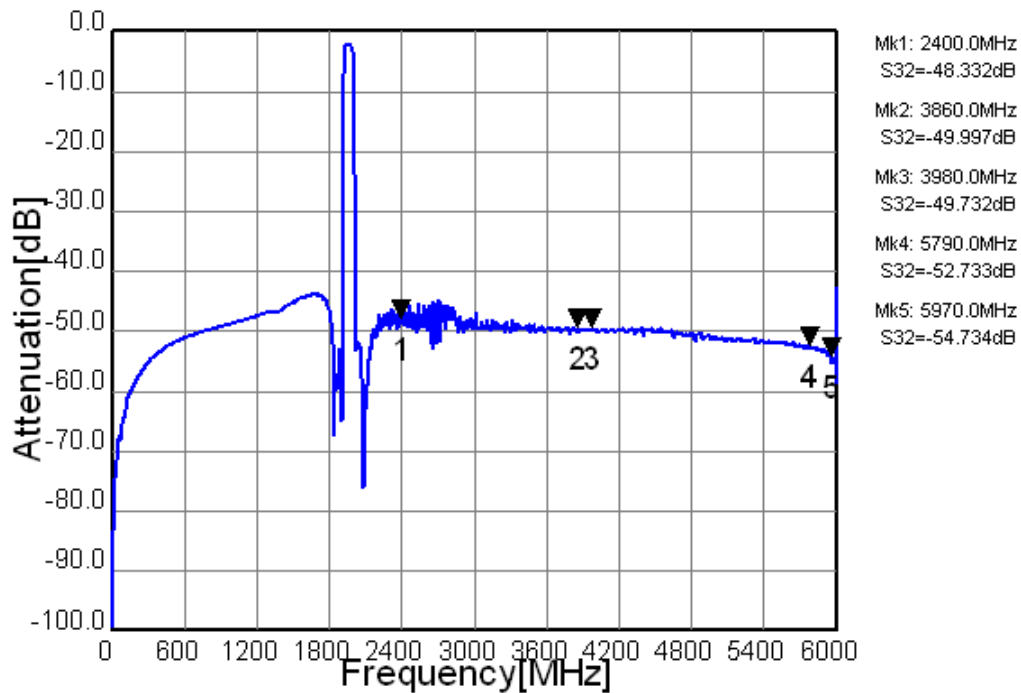


Figure 3-7. Electrical Characteristics