



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band II Duplexer	Date	May 25, 2011
Part Number	FAR-D6NH-1G9600-M1Z6	Version 2.0bb	

Table 1. Electrical Specification

Item		Condition (MHz)	Specification (Ver.2.0bb)			Unit	Remarks	
			Min	Typ	Max			
Tx to ANT	Insertion loss	1850.4~1909.6	-	2.3	3.0	dB	-20 to +85 °C	
		1850.6~1909.4	-	2.3	3.0			(*1)
	Ripple	1850.4~1909.6	-	0.9	2.2	dB		
	VSWR	Ant	1850.4~1909.6	-	1.7	2.0	-	
		Tx		-	1.9	2.3		
	Input Power	1850.4~1909.6	+29dBm, Ta=+50°C 50kh,CW			dBm		
	Absolute attenuation	1570~1580	37	39	-	dB		
		1930.4~1989.6	42	56	-	dB	-20 to +85 °C	
1930.6~1989.4		40	56	-				
3700~3820		20	28	-	dB			
5550~5730		15	18	-	dB			
ANT to Rx	Insertion loss	1930.4~1989.6	-	2.7	3.5	dB	-20 to +85 °C	
		1930.6~1989.4	-	2.7	3.6			(*1)
	Ripple	1930.4~1989.6	-	1.3	2.2	dB		
	VSWR	Ant	1930.4~1989.6	-	1.6	2.0	-	
		Rx	1930.4~1989.6	-	1.7	2.1		
	Absolute attenuation	1850.4~1909.6	48	55	-	dB	-20 to +85 °C	
1850.6~1909.4		48	55	-				
Tx to Rx	Isolation	1850.4~1909.6	52	55	-	dB	-20 to +85 °C	
		1850.6~1909.4	52	55	-			
		1930.4~1989.6	47	53	-	dB	-20 to +85 °C	
		1930.6~1989.4	45	53	-			
Terminating Impedance	Tx port	50			Ohm	Single-ended		
	Rx port	50			Ohm	Single-ended		
	Ant port	50			Ohm	Single-ended		
Operating Temperature		-30 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)

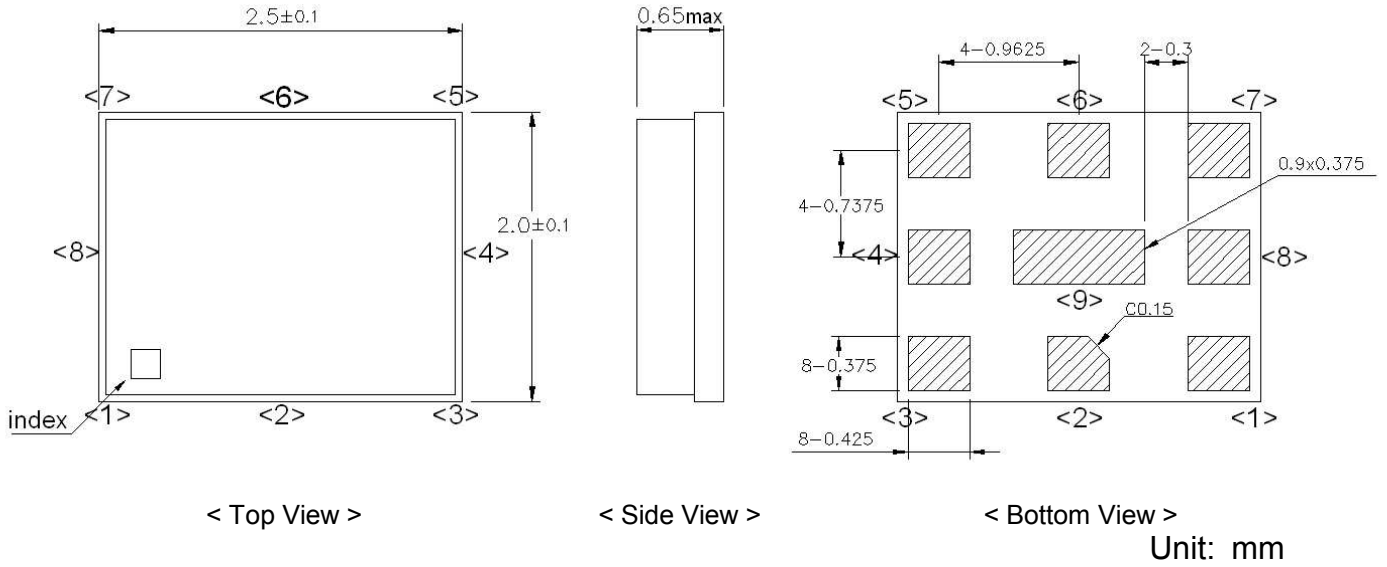


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Dimensions



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

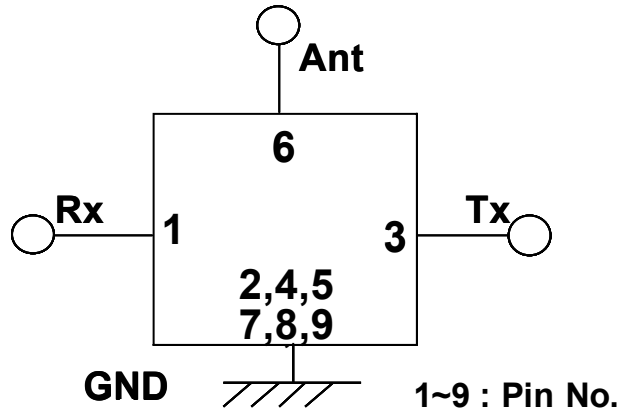


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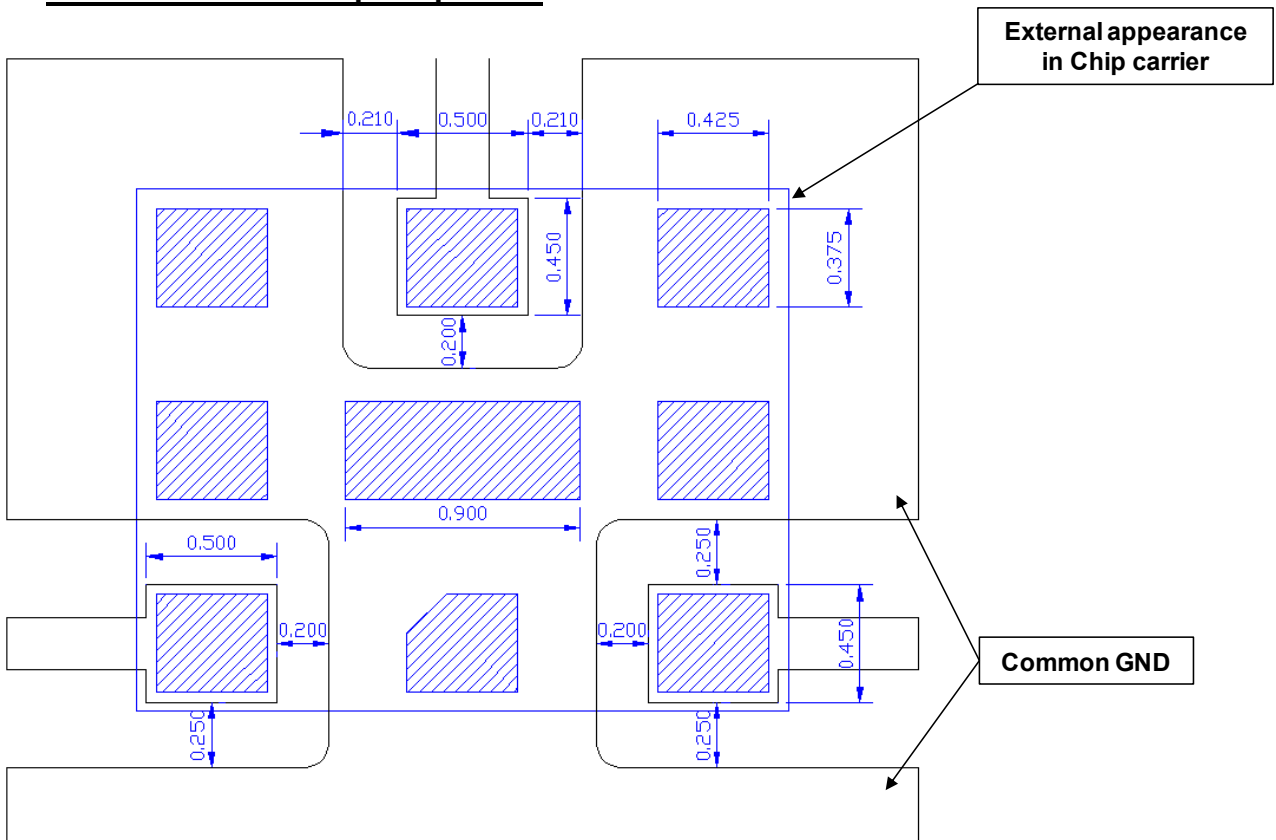
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Evaluation Circuit



Recommended foot print pattern



Unit: mm

Figure 2. Recommended foot print pattern

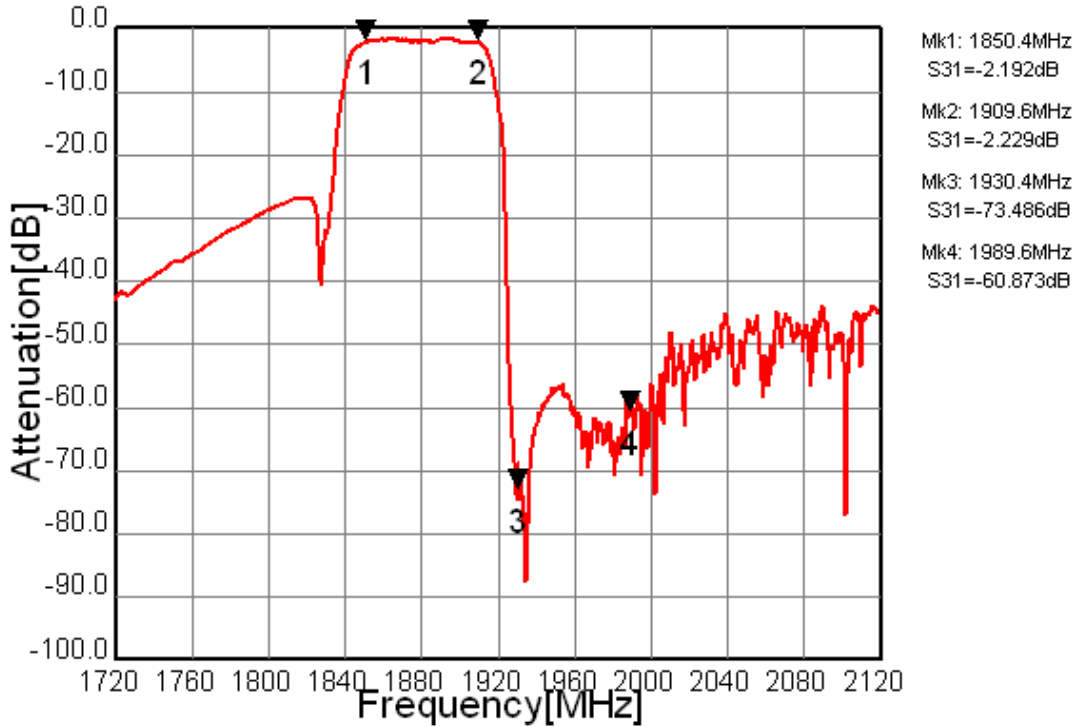


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Tx to Ant



Ant to Rx

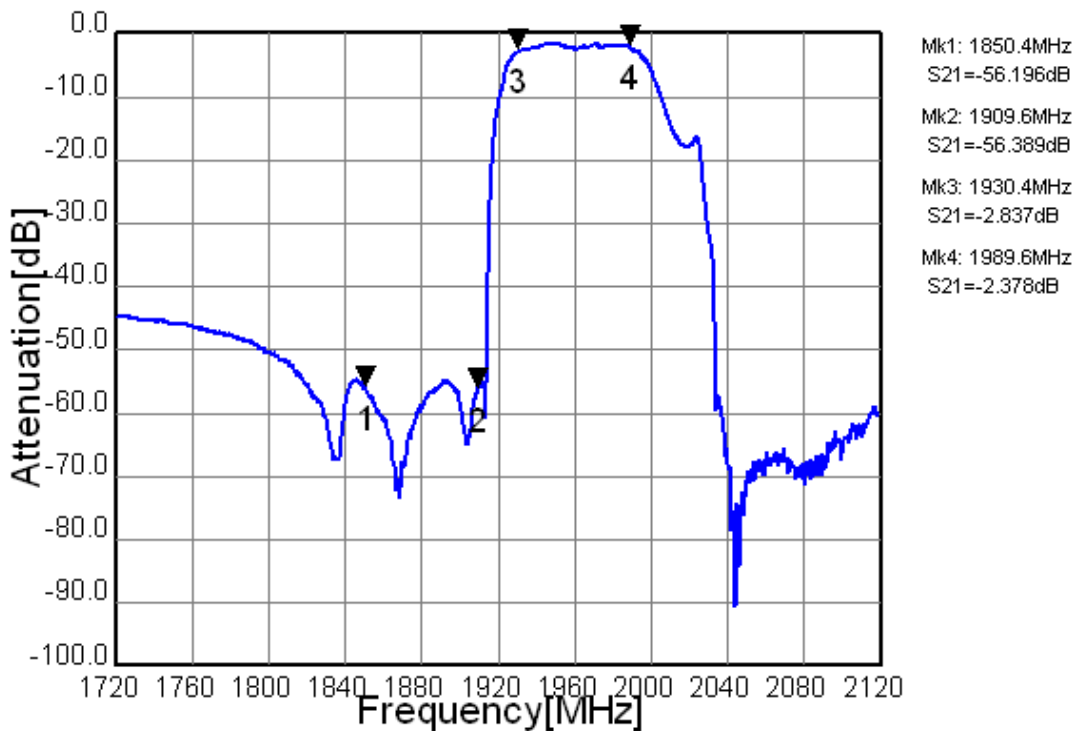


Figure 3-1. Electrical Characteristics

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

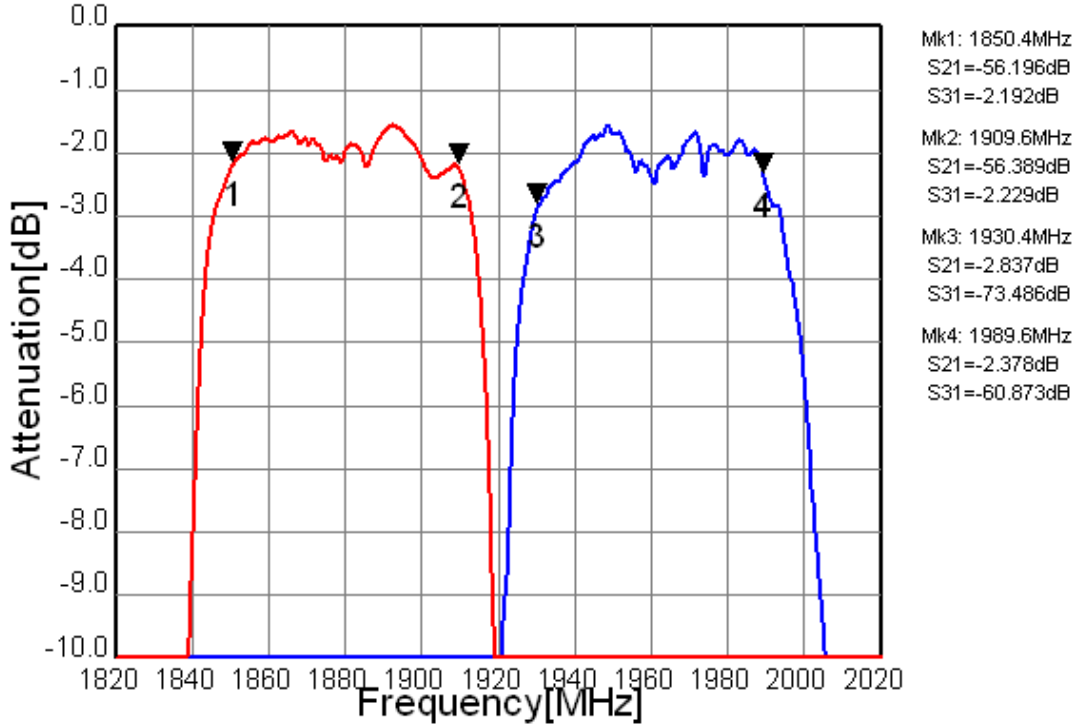


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Tx to Ant, Ant to Rx



Tx to Rx Isolation

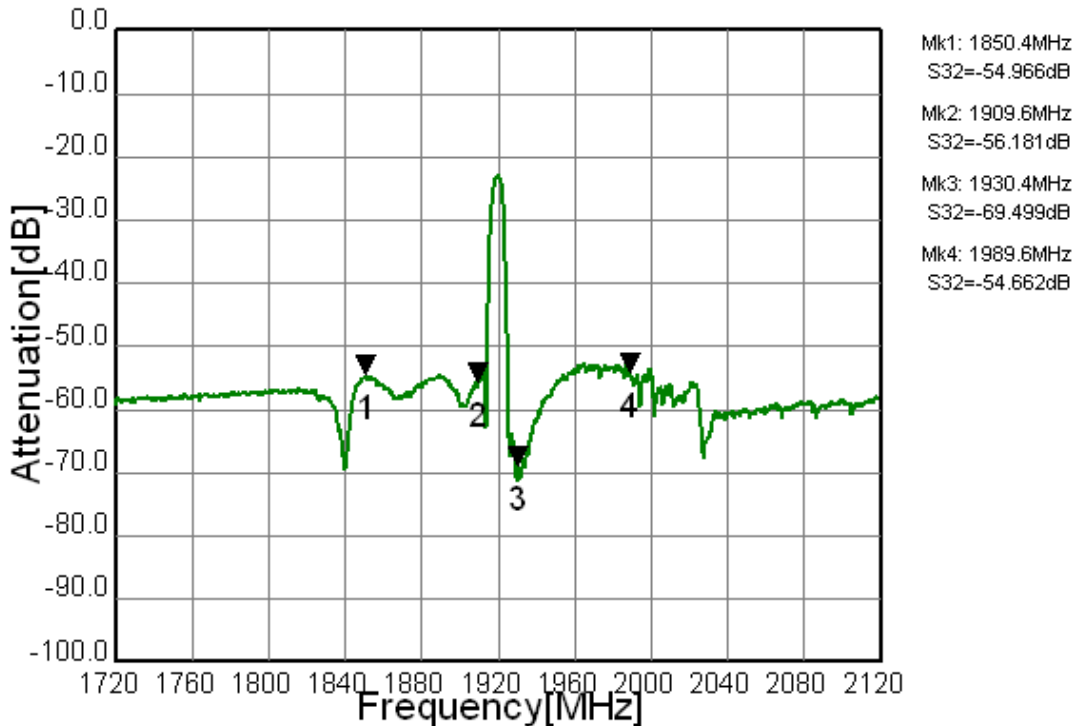


Figure 3-2. Electrical Characteristics

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



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Tx Port

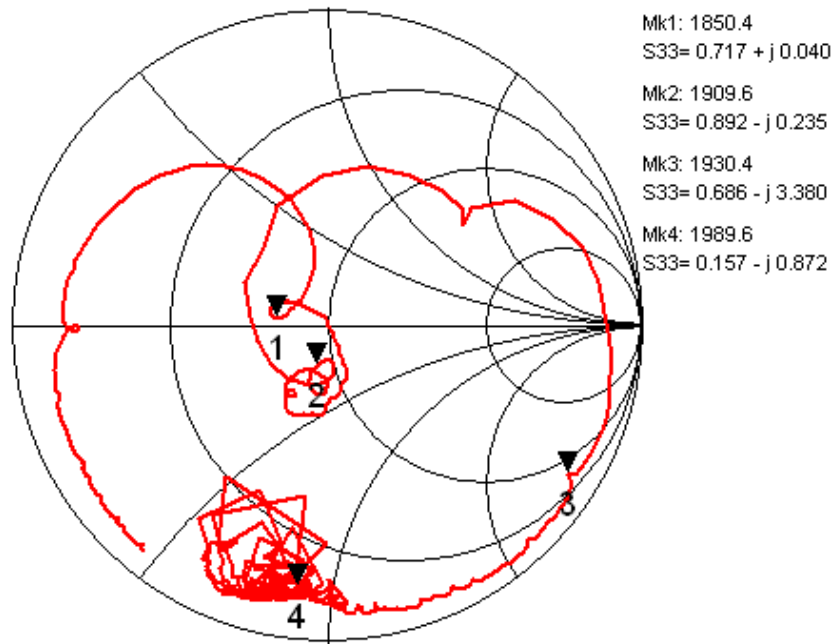
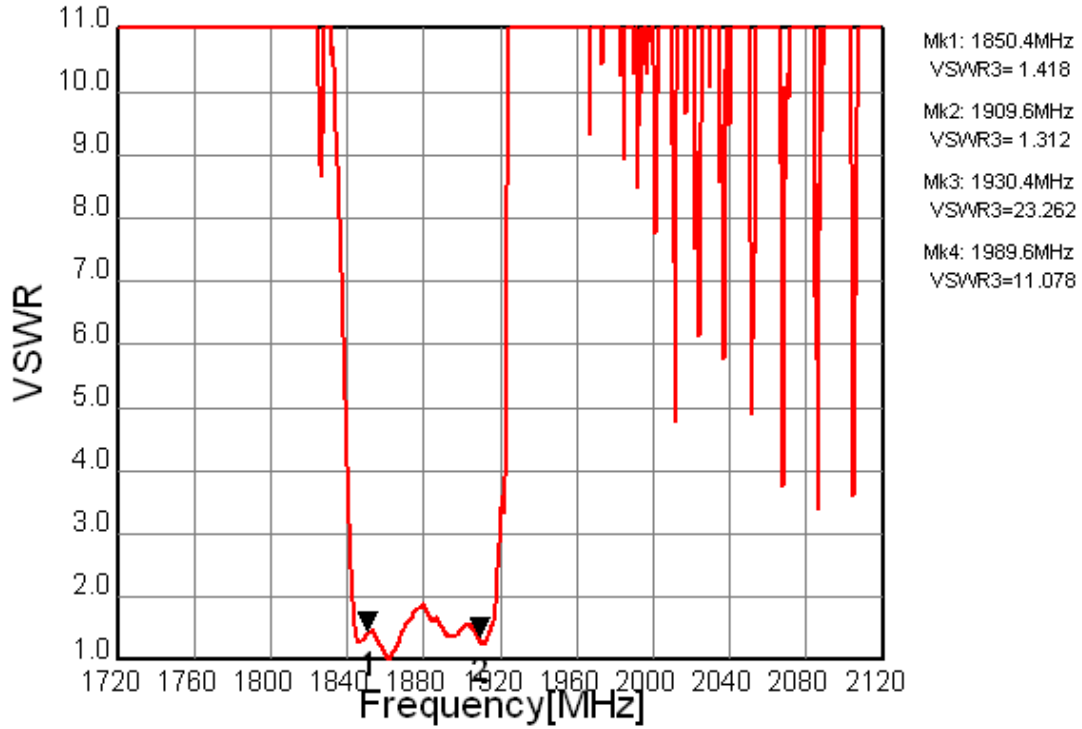


Figure 3-3. Electrical Characteristics



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Rx Port

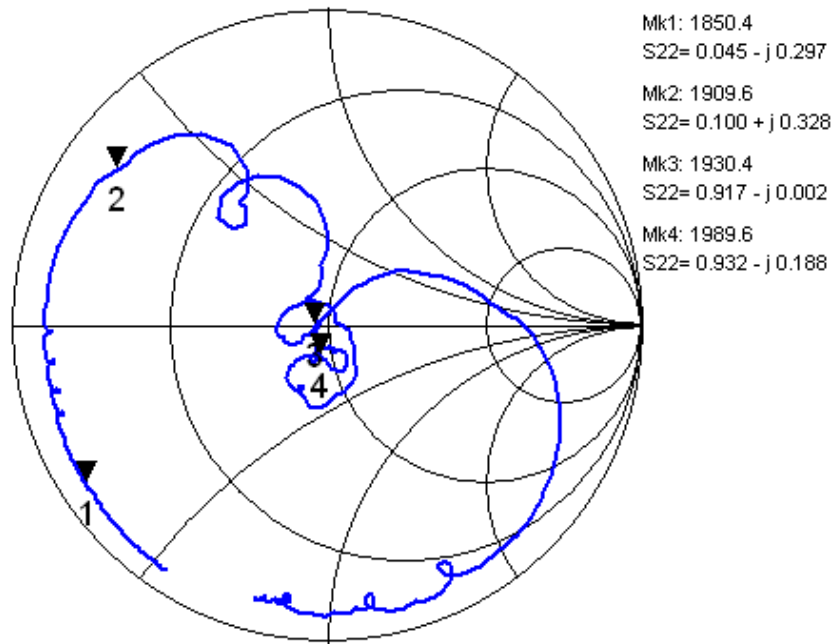
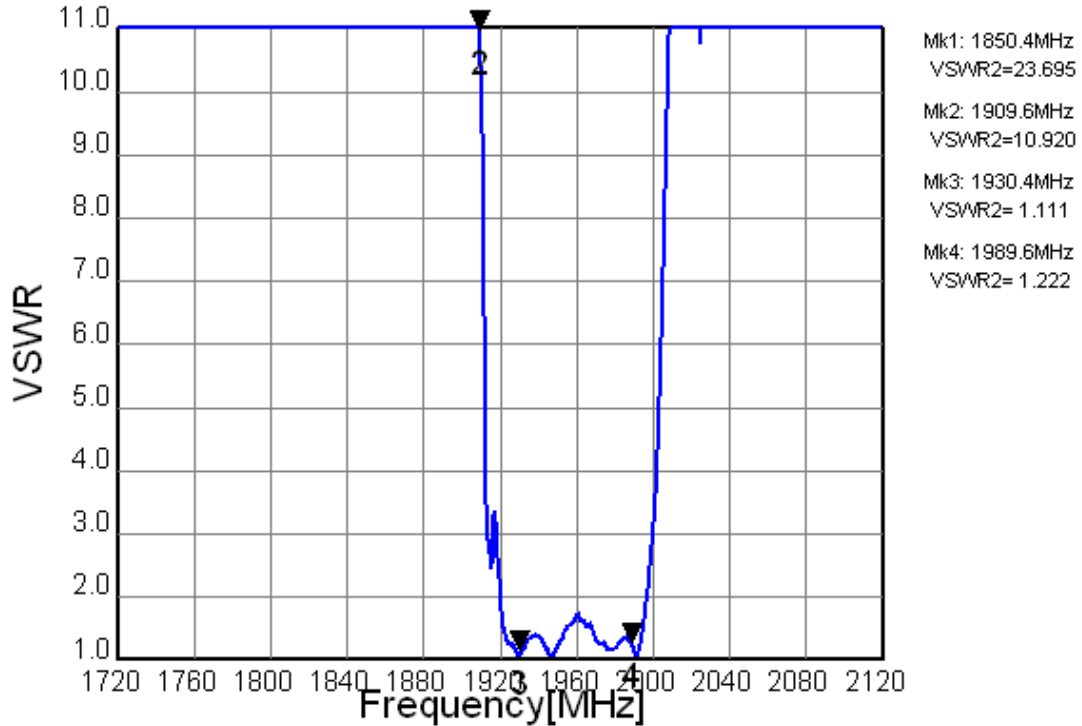


Figure 3-4. Electrical Characteristics



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Ant Port

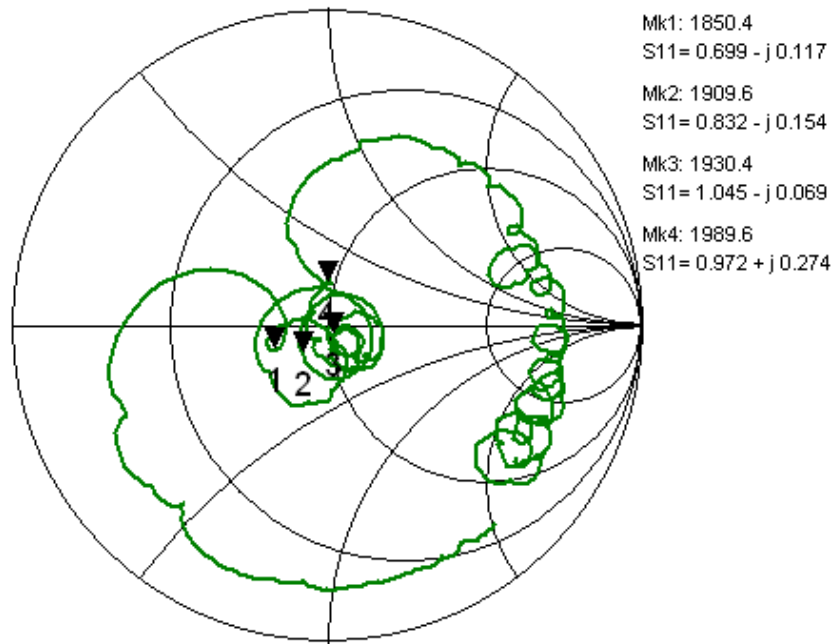
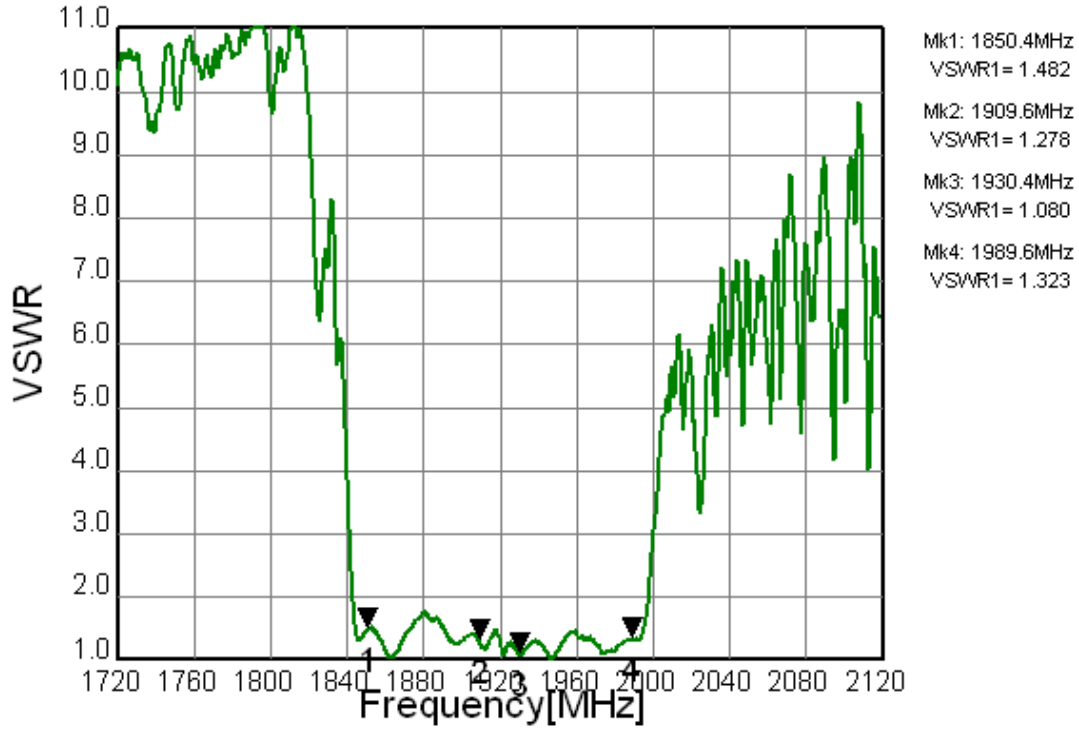


Figure 3-5. Electrical Characteristics

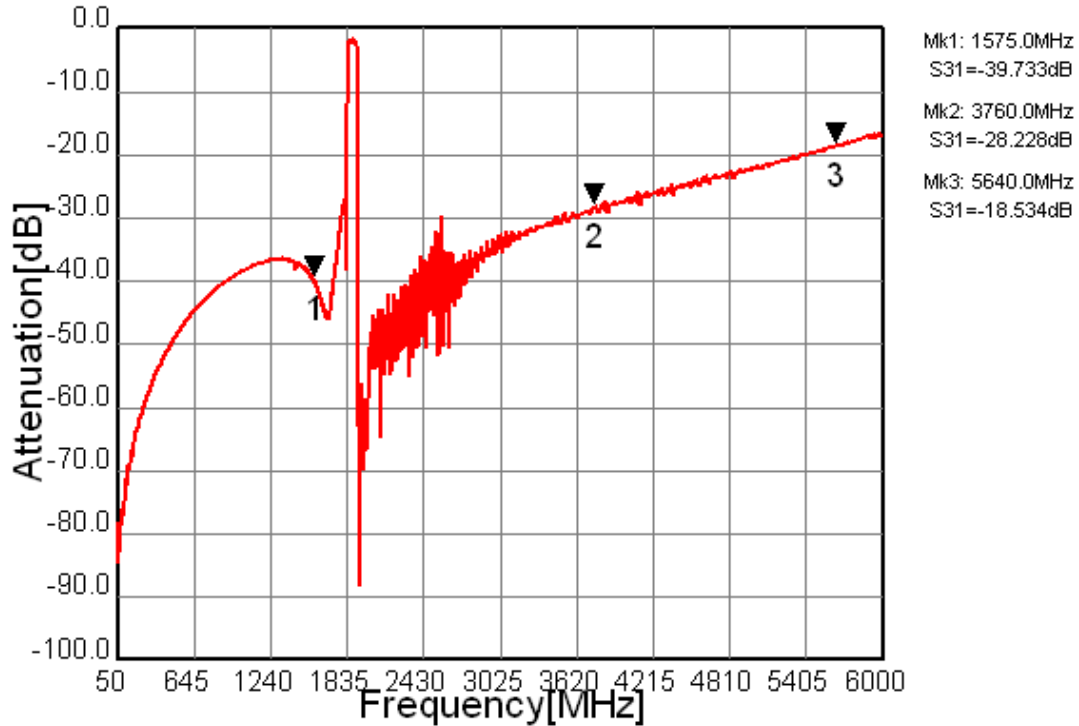


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Tx to Ant (Wide span)



Ant to Rx (Wide span)

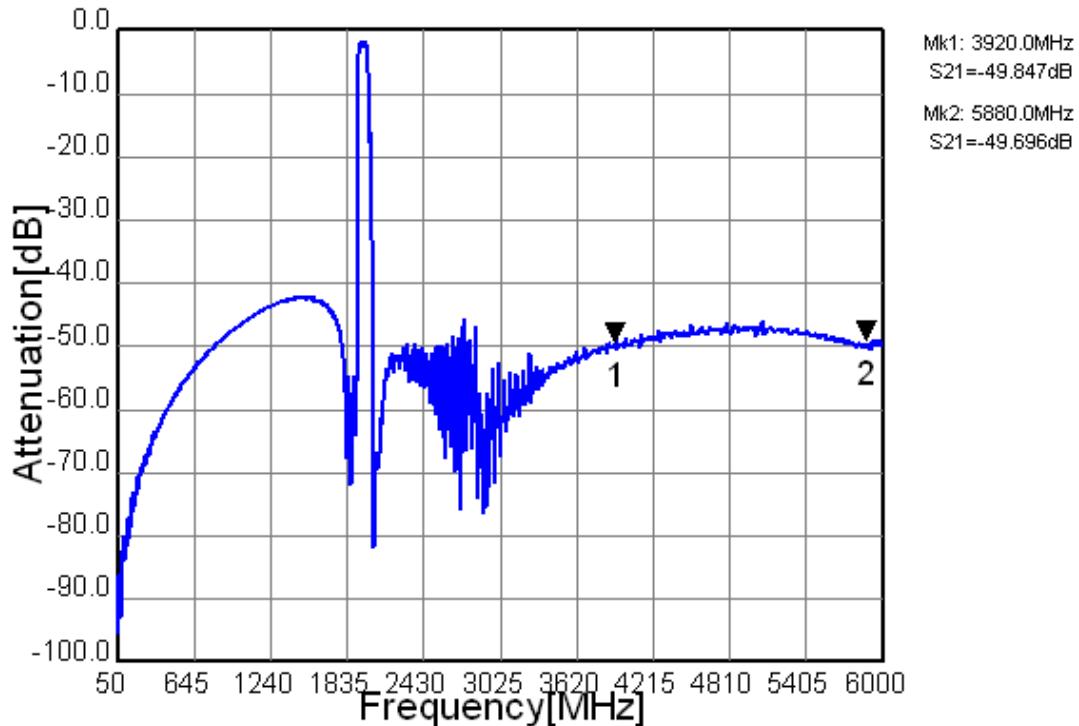


Figure 3-6. Electrical Characteristics