



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band VIII Duplexer	Date	March 31, 2010
Part Number	FAR-D5NH-942M50-M1Y9	Version 3.0cd	

Table 1. Electrical Specification

Item			Condition (MHz)	Specification			Unit	Remarks
				Min	Typ	Max		
Tx to ANT	Insertion loss		880.4~914.6	-	2.2	3.0	dB (*1)	
			882.4~912.6	-	1.8	2.5 (*2)		
	Pass band ripple		880.4~914.6	-	1.1	2.0	dB	
	VSWR	Tx	880.4~914.6	-	2.0	2.2	-	
		Ant		-	1.8	2.1	-	
	Input Power		880.4~914.6	+29dBm, Ta=+50°C 50kh, CW			dBm	
	Absolute attenuation		927.4~957.6	43(*2)	50	-	dB	
			1574~1577	40	43	-	dB	
			1760~1830	32	38	-	dB	
			2640~2745	20	26	-	dB	
ANT to Rx	Insertion loss		925.4~959.6	-	2.6	3.3	dB (*1)	
			927.4~957.6		2.3	2.8(*2)		
	Pass band ripple		925.4~959.6	-	1.2	2.2	dB	
	VSWR	Ant	925.4~959.6	-	1.7	2.0	-	
		Rx		-	1.9	2.2	-	
	Absolute attenuation		882.4~912.6	48(*2)	58	-	dB	
			1045~2880	40	47	-	dB	
Tx to Rx	Isolation		882.4~912.6	53(*2)	58	-	dB	
			927.4~957.6	48(*2)	50	-	dB	
Terminating Impedance			Tx port	50			Ohm	Single-ended
			Rx port	50			Ohm	Single-ended
			Ant port	50			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 0.05dB)

(*2) Integrated over +/-1.92MHz around the WCDMA channel center frequency



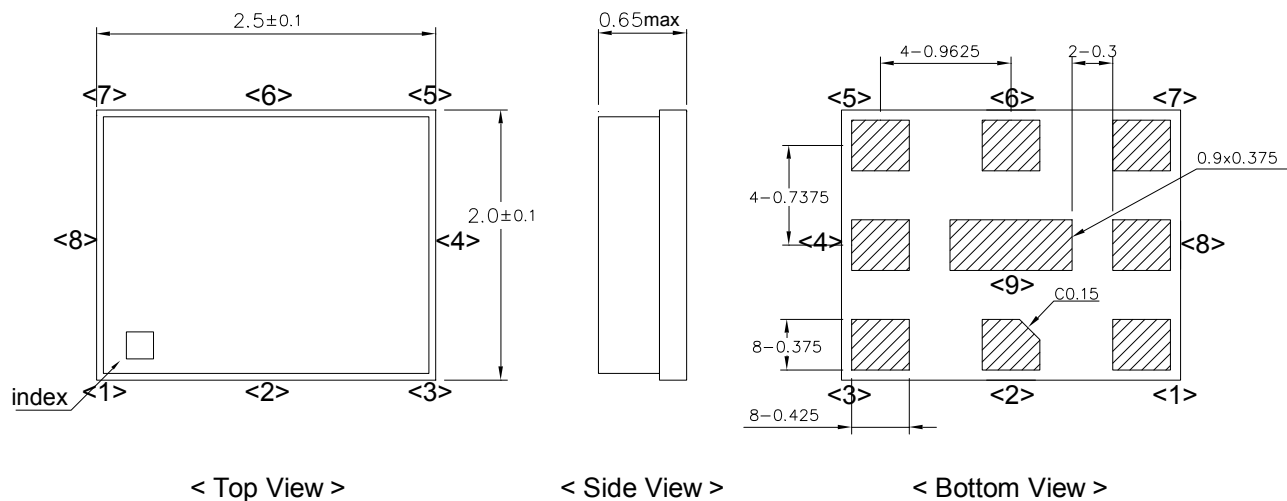
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Dimensions



Unit: mm

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



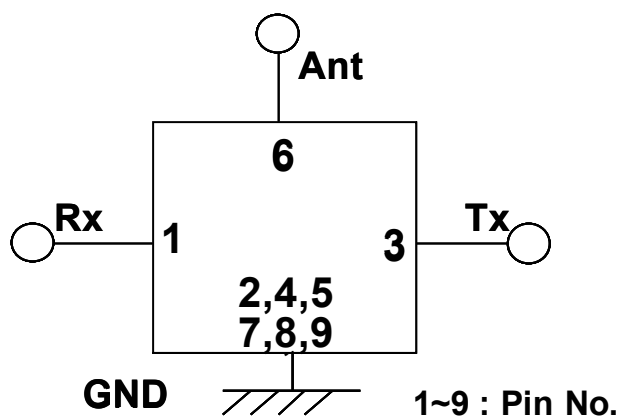
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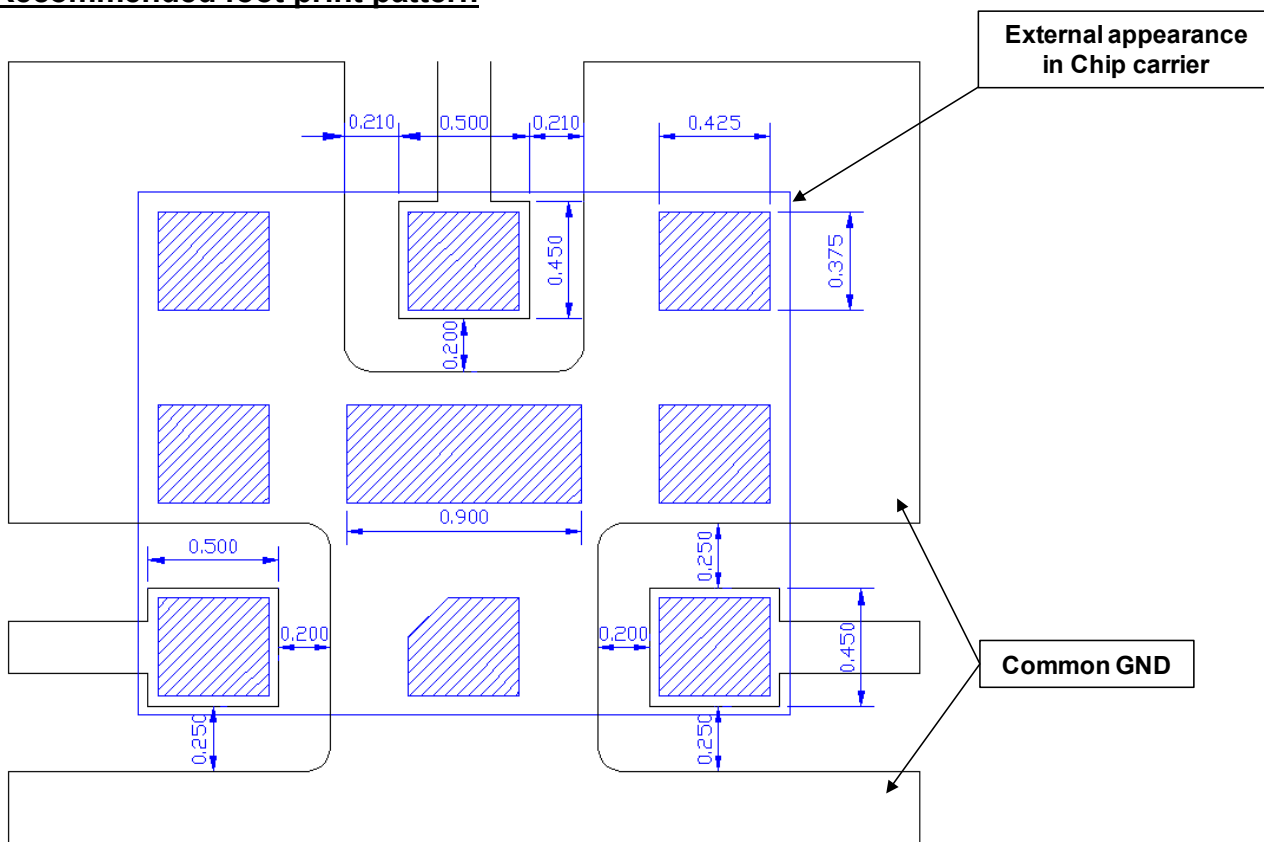
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Evaluation Circuit



Recommended foot print pattern



Unit: mm

Figure 2. Recommended foot print pattern

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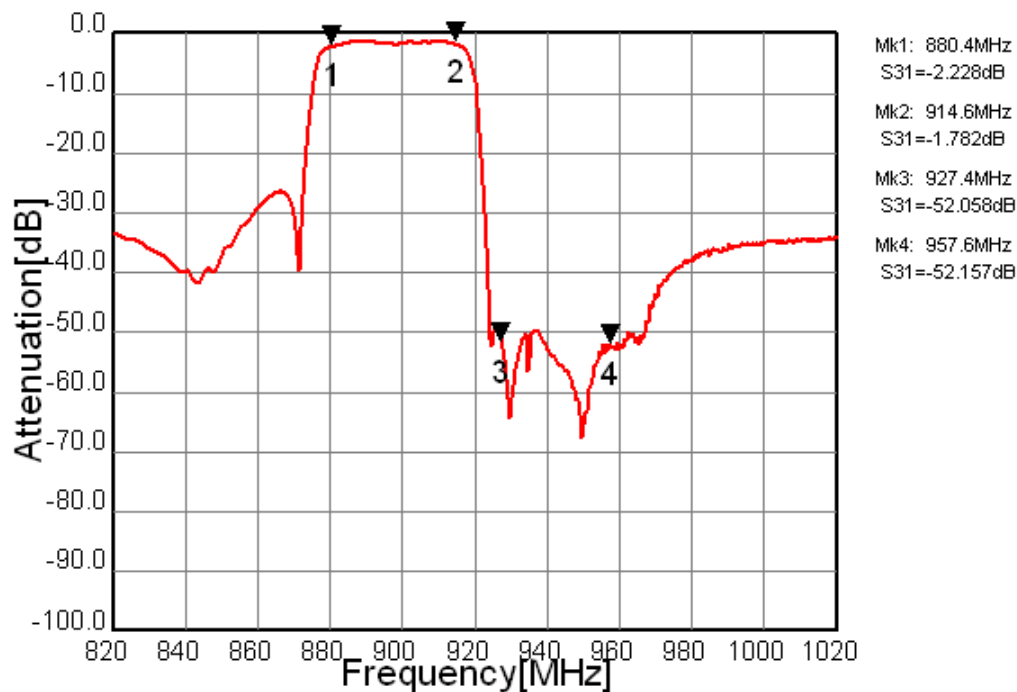
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Tx to Ant



Ant to Rx

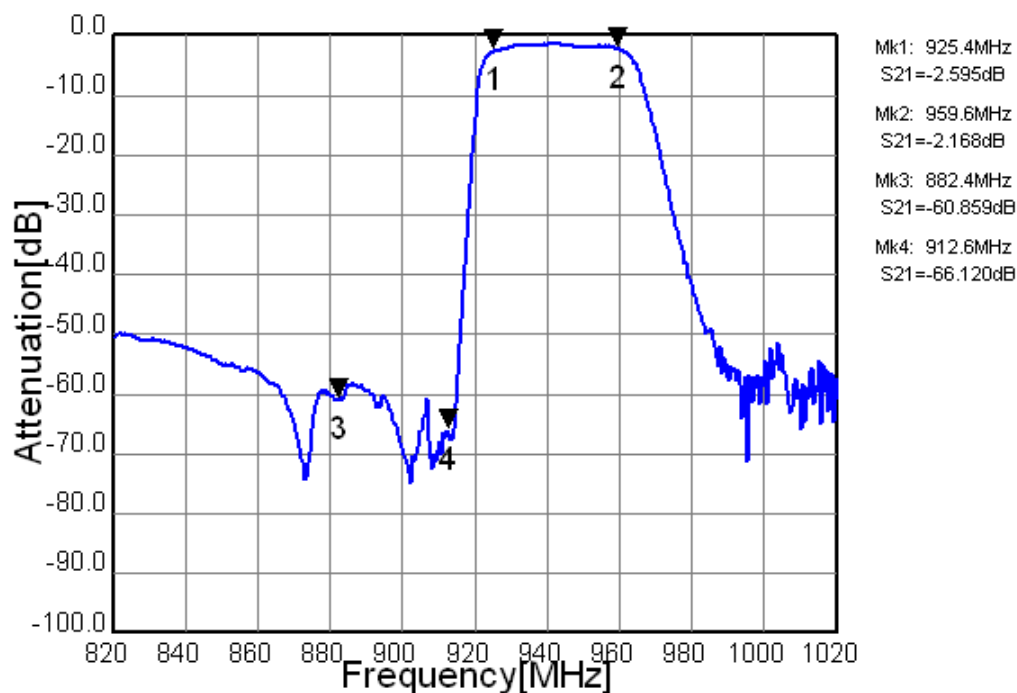


Figure 3-1. Electrical Characteristics

These data **include** loss that comes from the test board. (Approximately 0.05dB)

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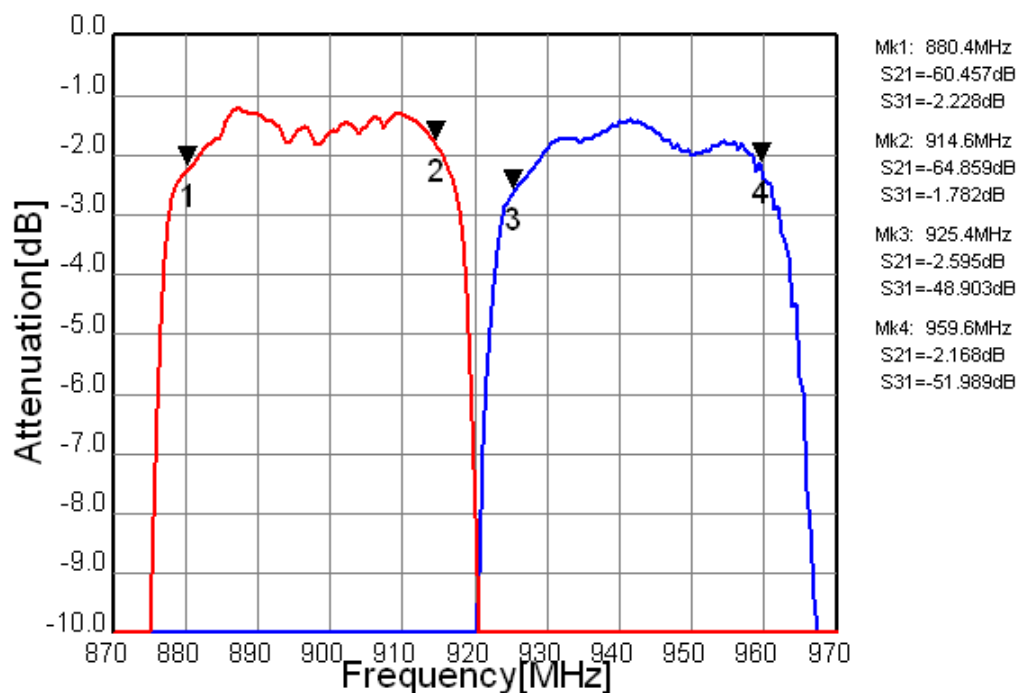
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

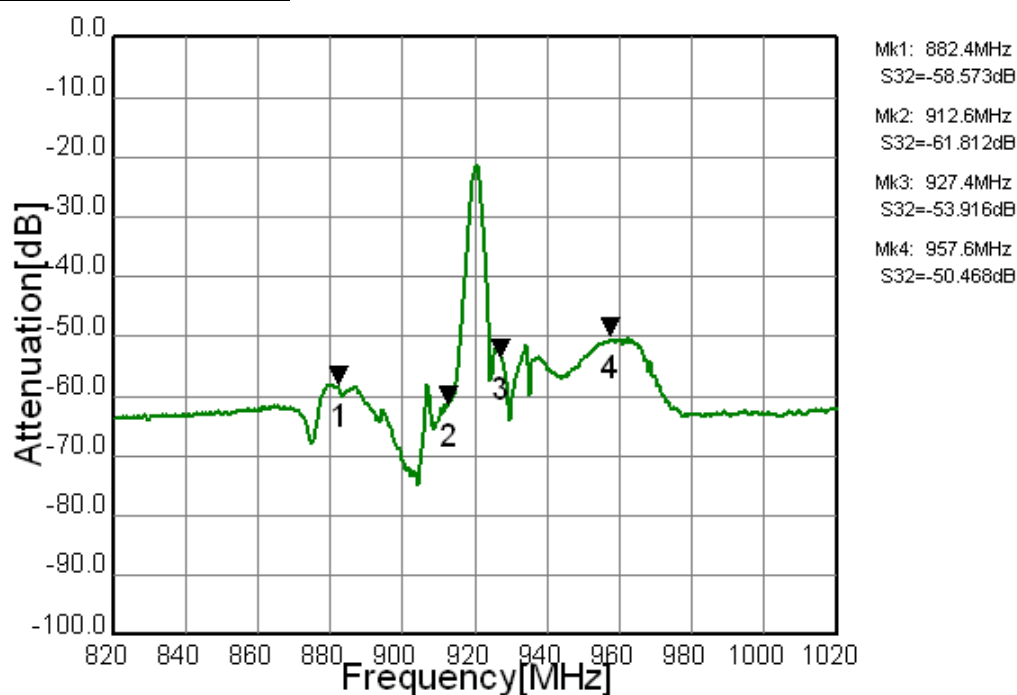


Figure 3-2. Electrical Characteristics

These data **include** loss that comes from the test board. (Approximately 0.05dB)

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Tx Port

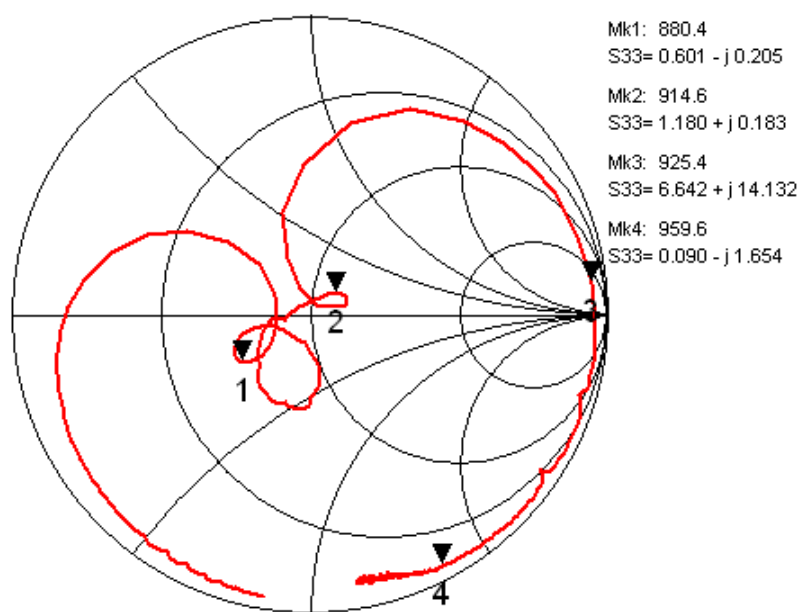
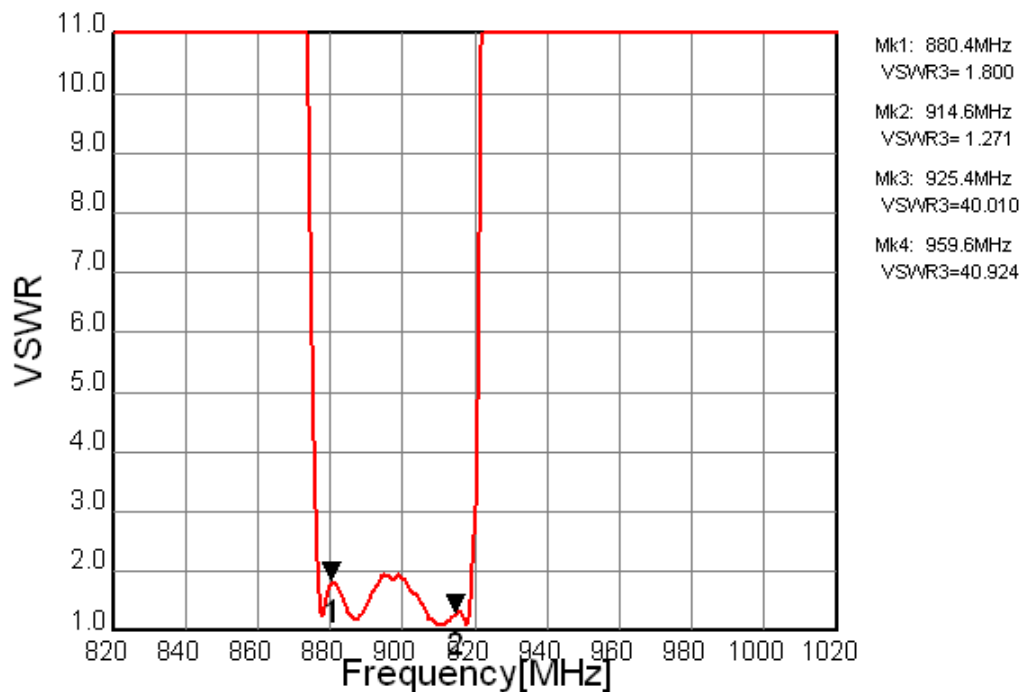


Figure 3-3. Electrical Characteristics



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Rx Port

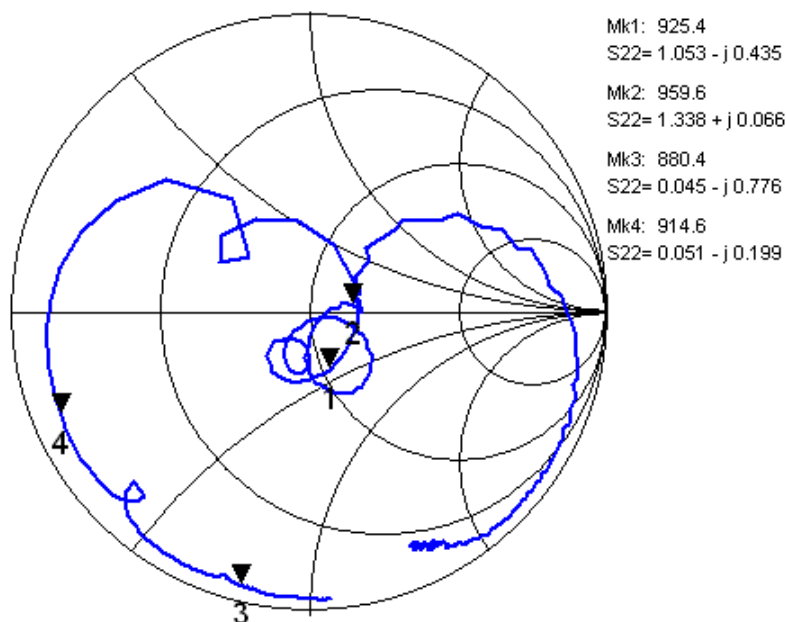
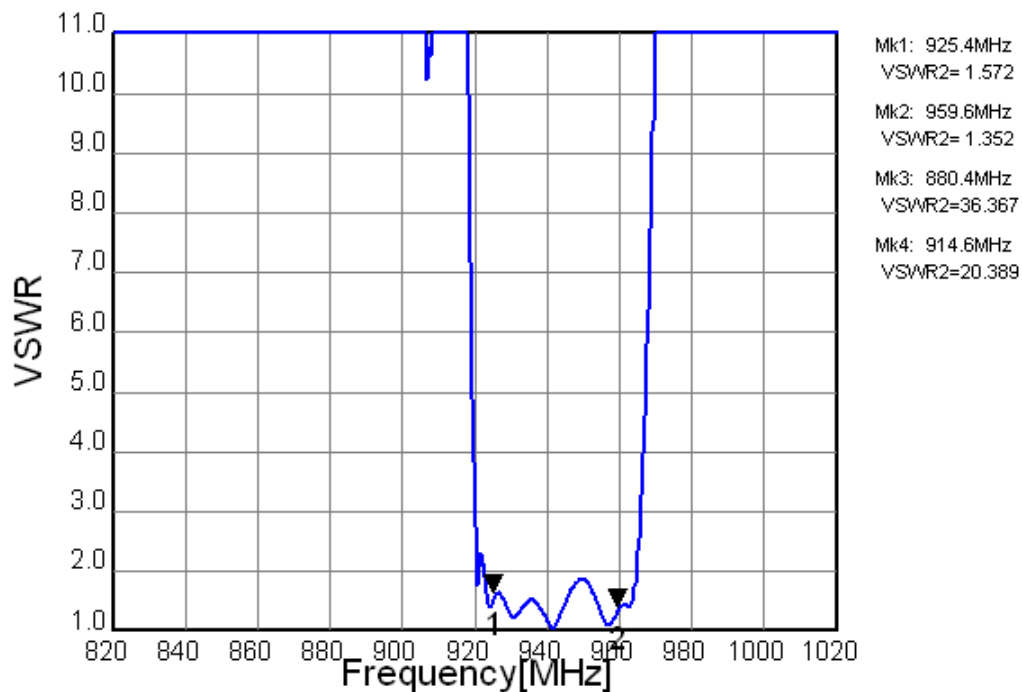


Figure 3-4. Electrical Characteristics



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Ant Port

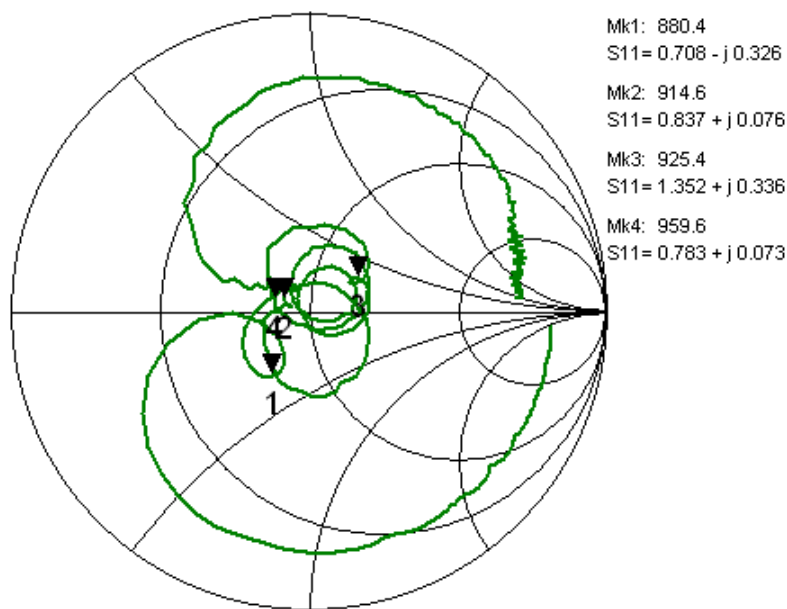
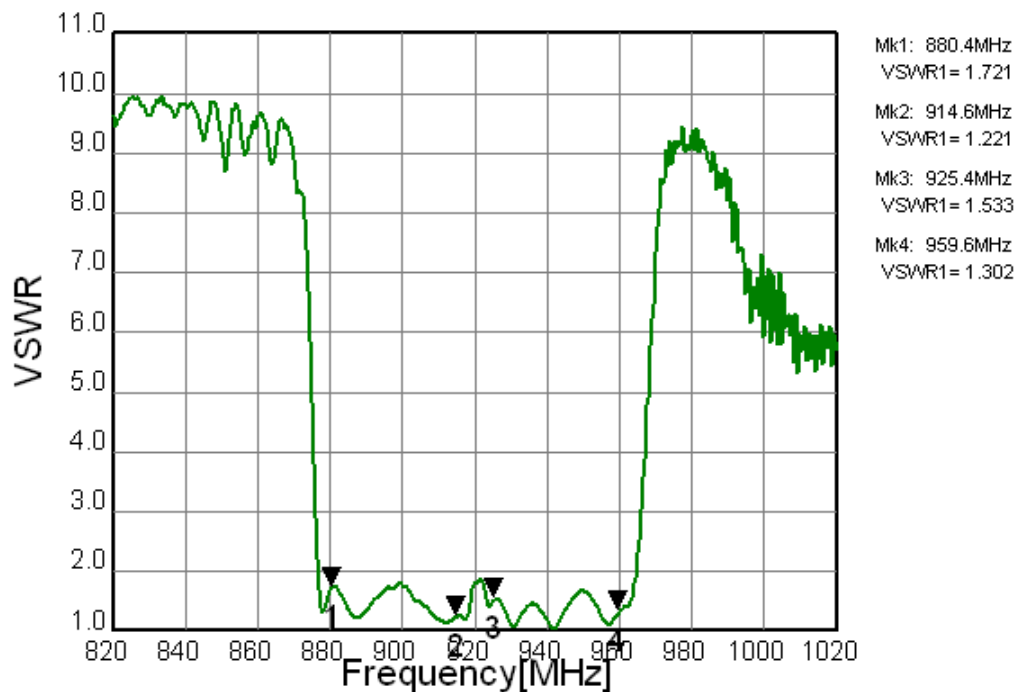


Figure 3-5. Electrical Characteristics



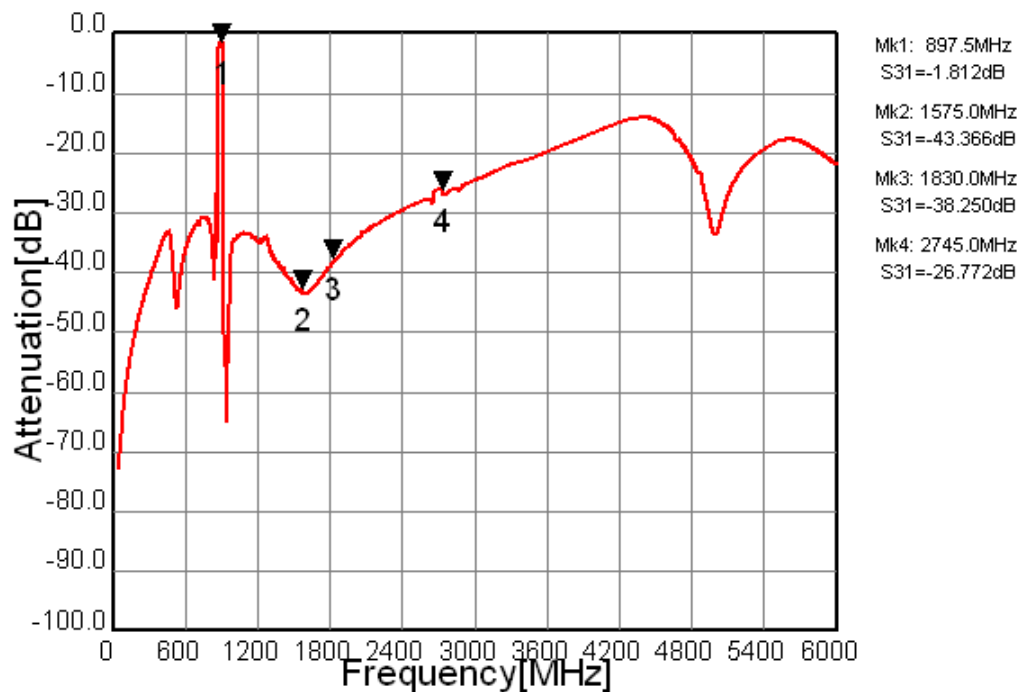
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Tx to Ant (Wide span)



Ant to Rx (Wide span)

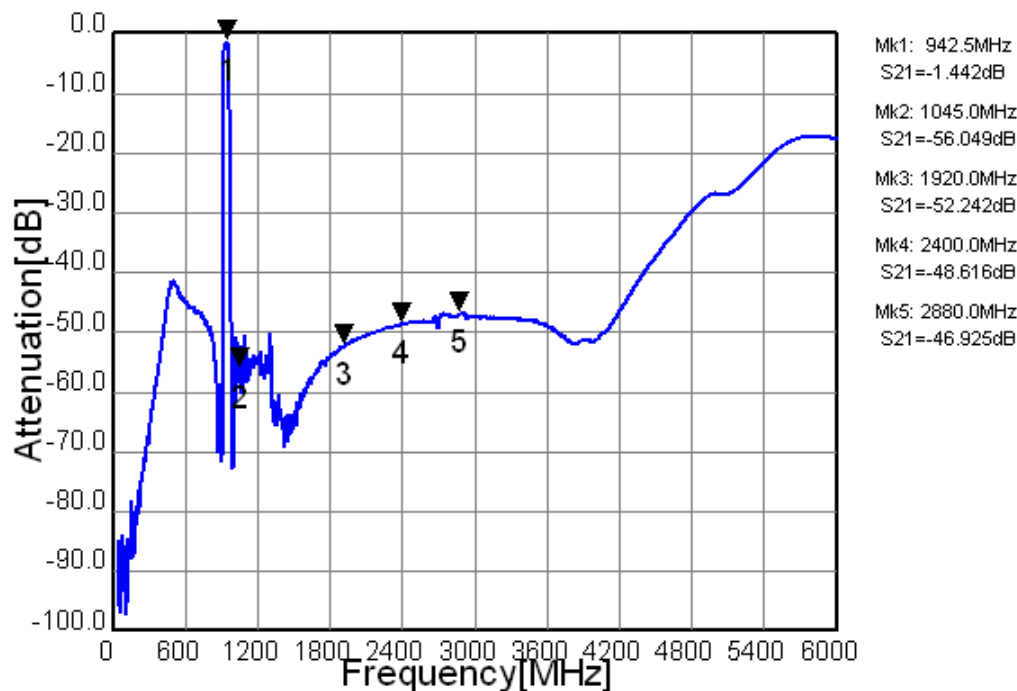


Figure 3-6. Electrical Characteristics

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