



* Pb Free Part



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	880.4~914.6	Tx	-	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	925.4~959.6	Ant	-	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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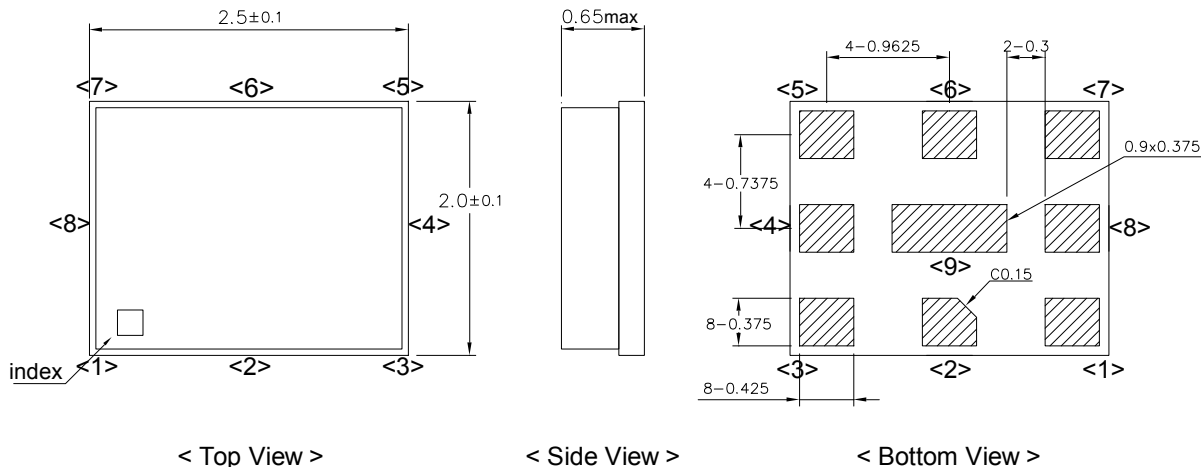


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Dimensions



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

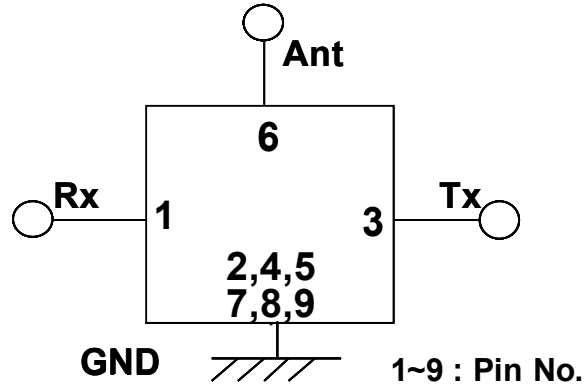


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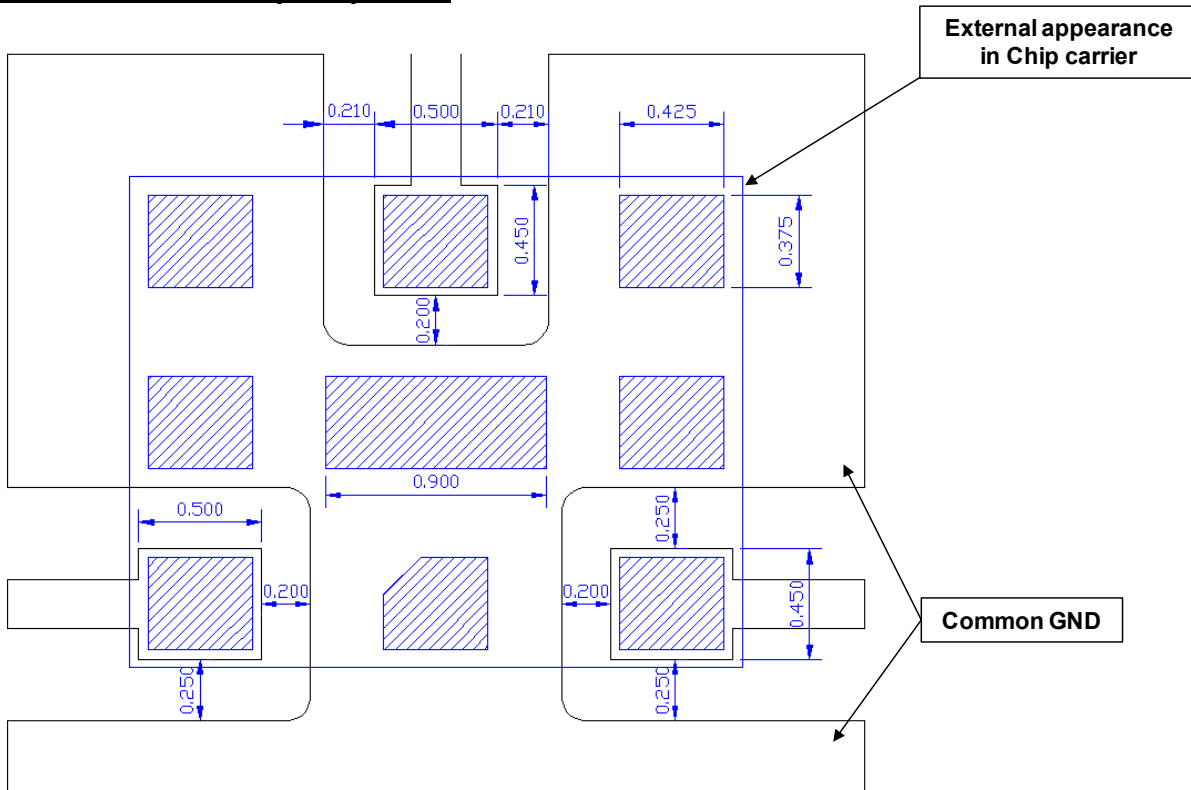
RoHS MSL1

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Evaluation Circuit



Recommended foot print pattern



Unit: mm

Figure 2. Recommended foot print pattern

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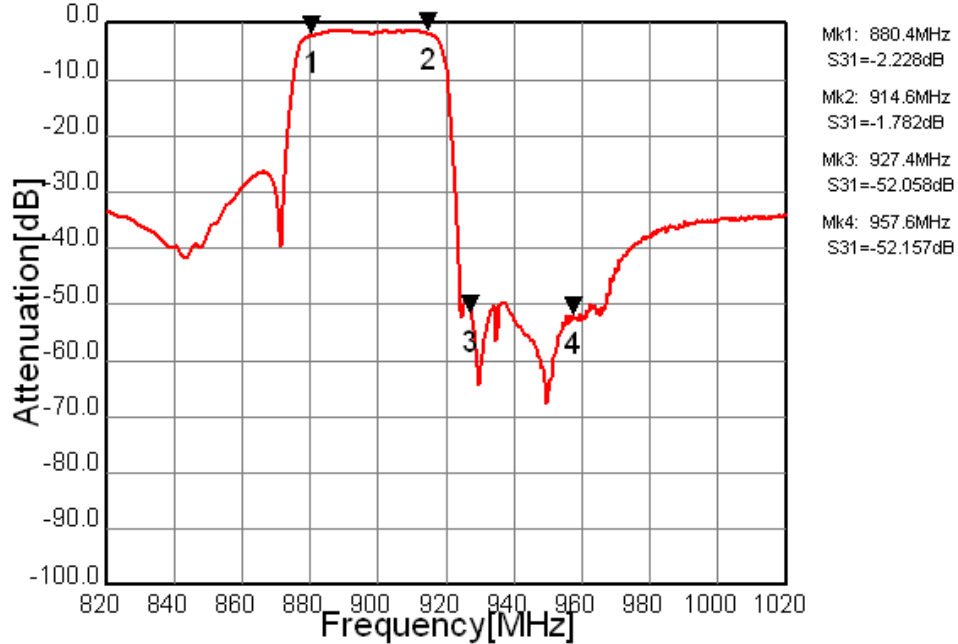
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MSL1

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Tx to Ant



Ant to Rx

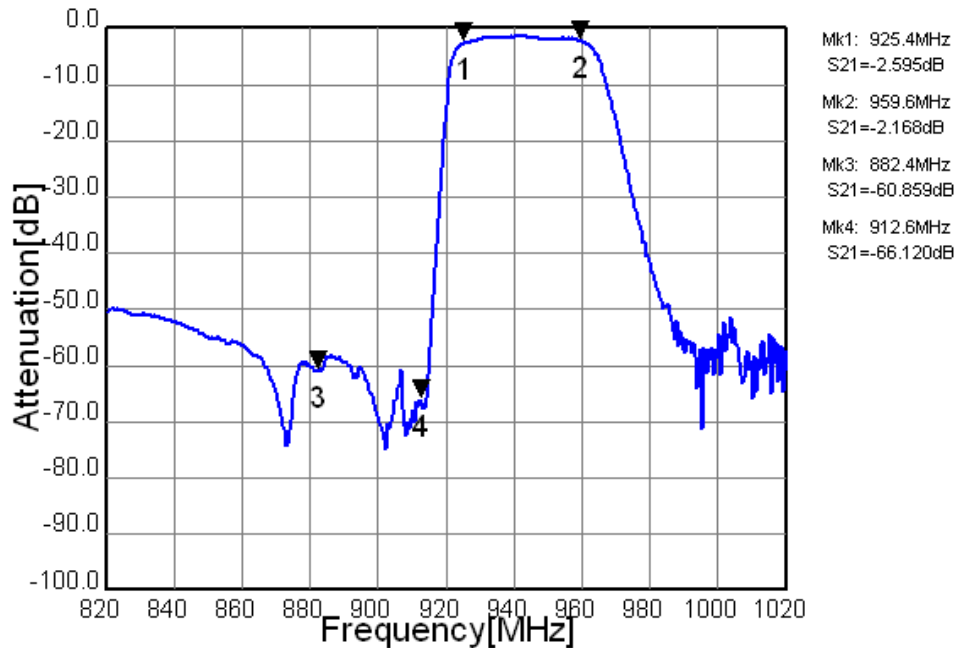


Figure 3-1. Electrical Characteristics

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

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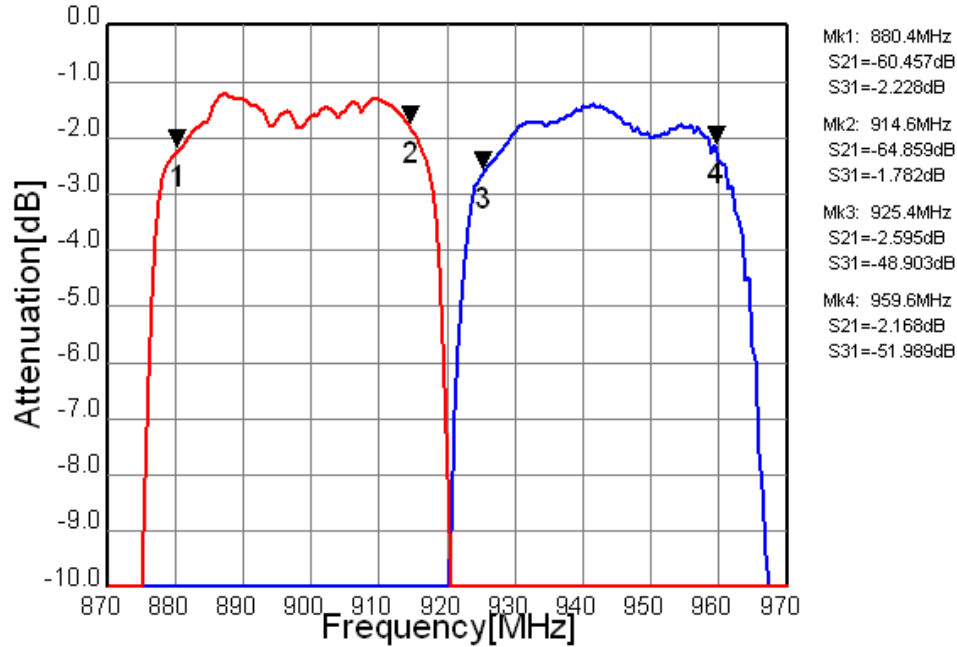


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Tx to Ant, Ant to Rx



Tx to Rx Isolation

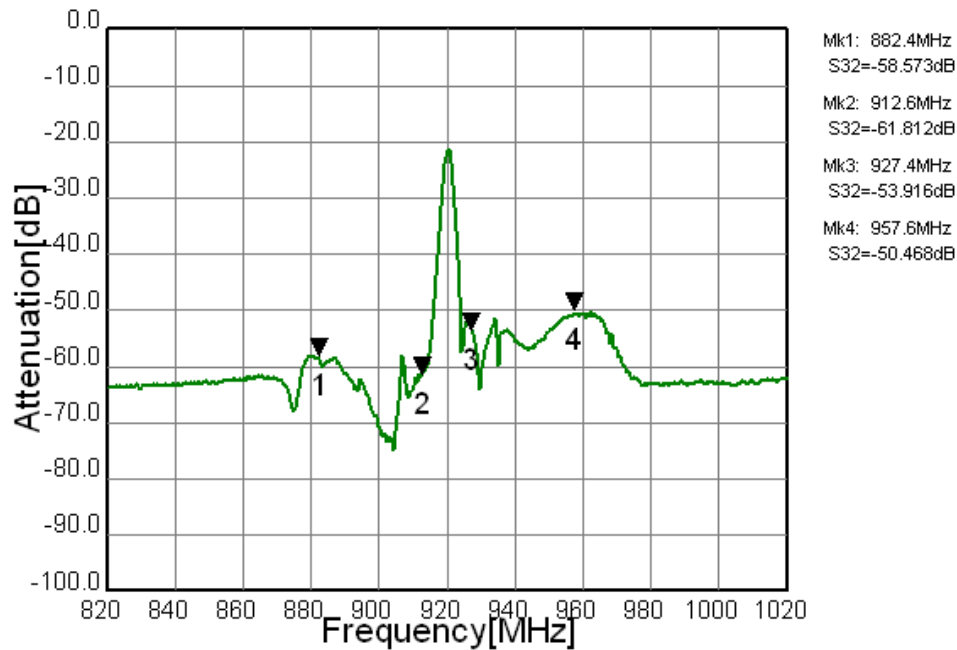


Figure 3-2. Electrical Characteristics

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

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Tx Port

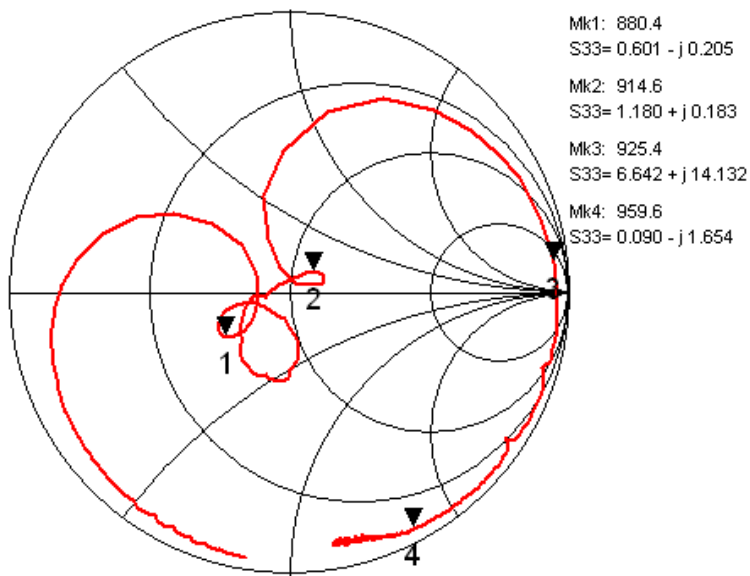
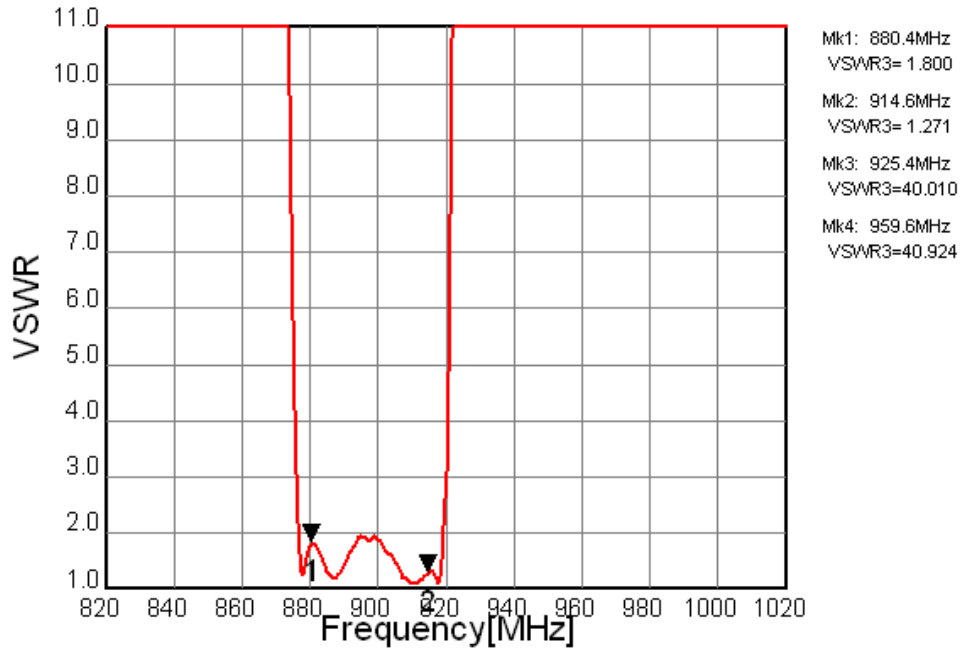


Figure 3-3. Electrical Characteristics

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Rx Port

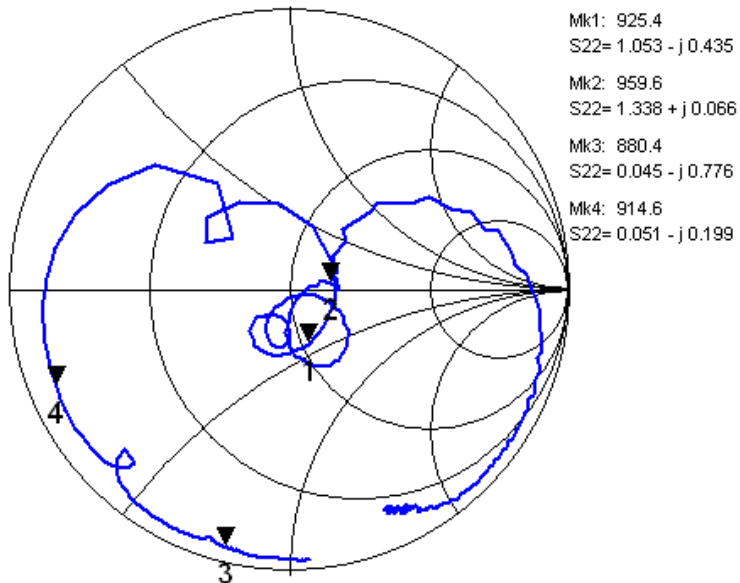
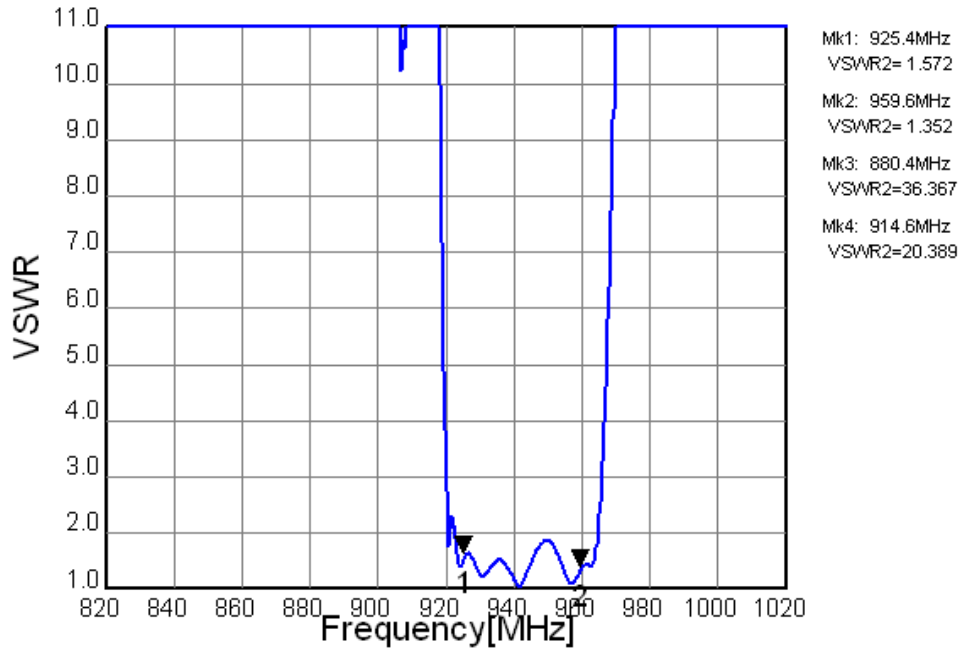


Figure 3-4. Electrical Characteristics

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Ant Port

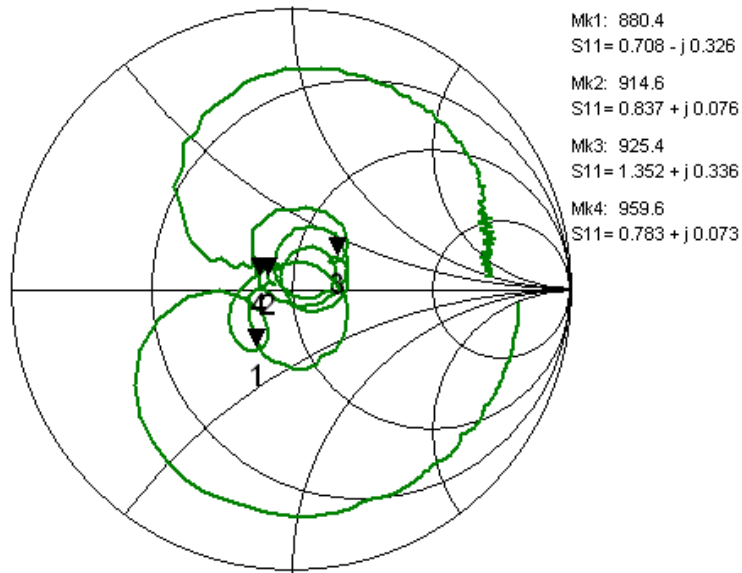
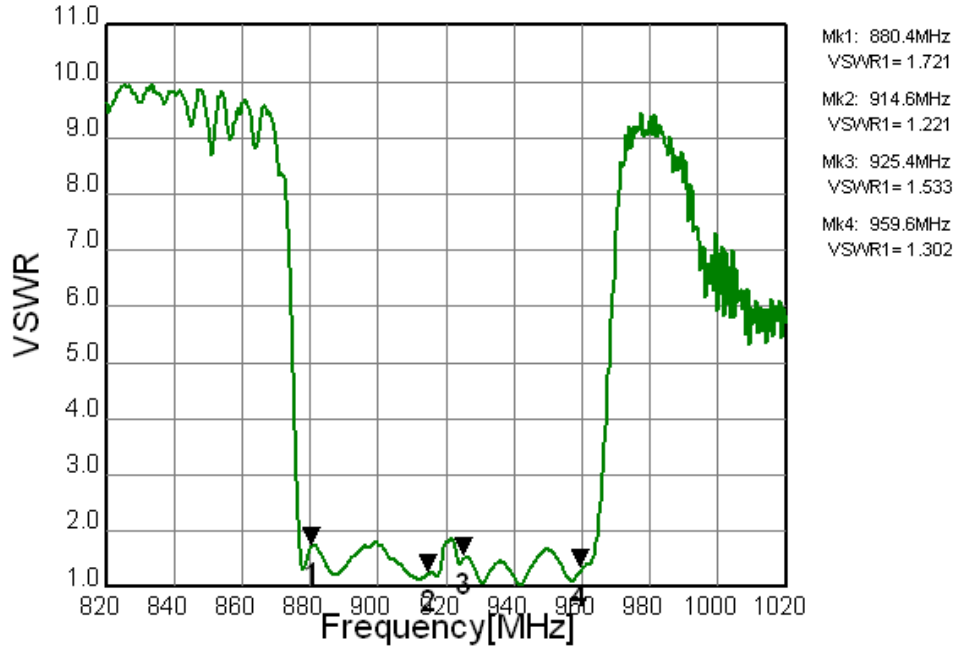


Figure 3-5. Electrical Characteristics

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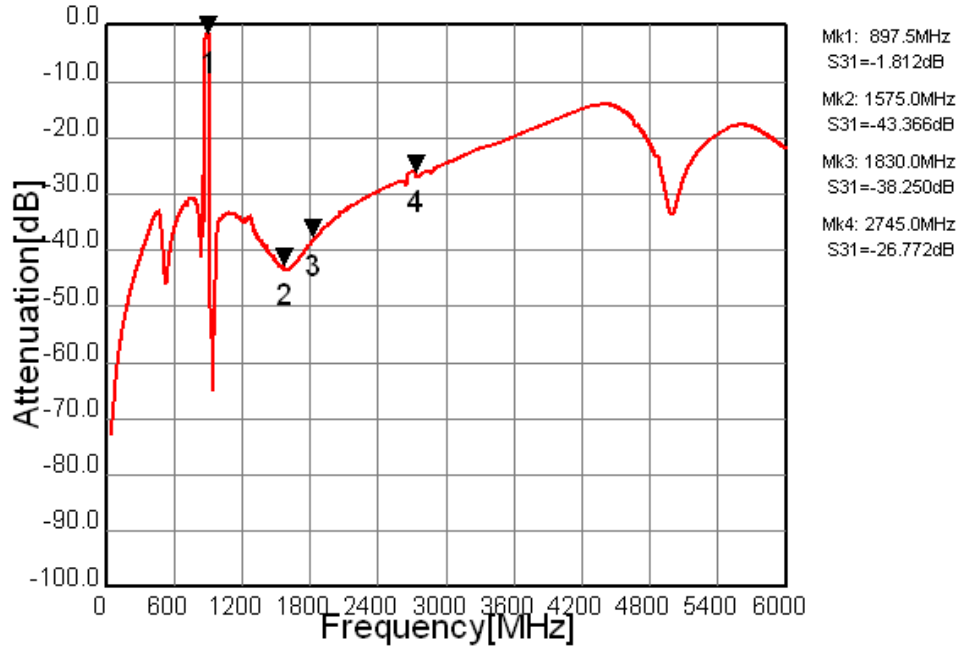
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MSL1

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Tx to Ant (Wide span)



Ant to Rx (Wide span)

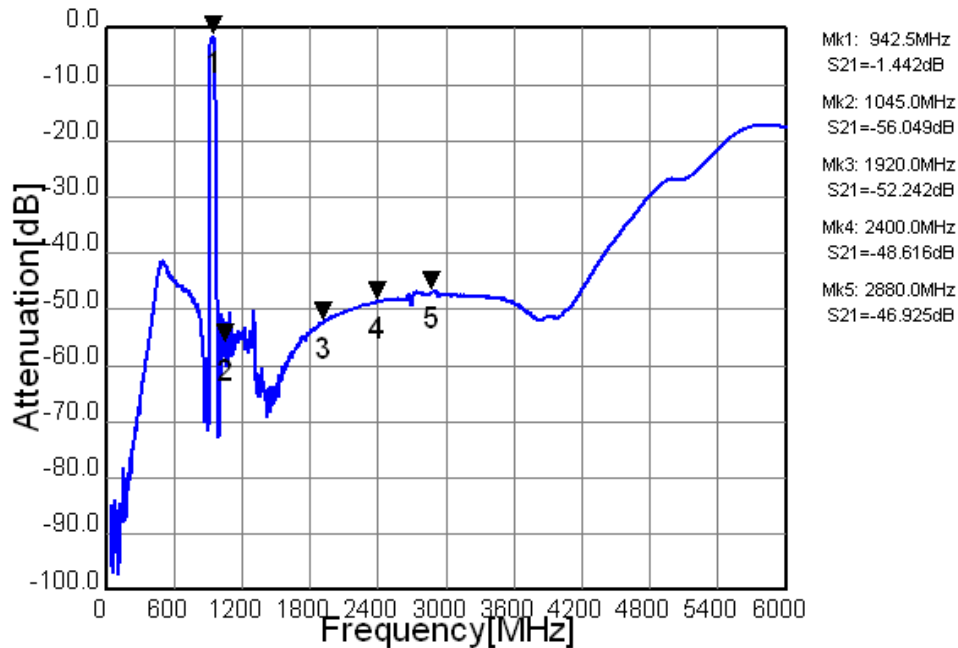


Figure 3-6. Electrical Characteristics

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