



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band VIII Duplexer	DATE	Nov. 16, 2011
Part Number	D5PF942M5M3G9	Version4.1bc	Final

Table 1. Electrical Specification

Item			Condition (MHz)	Specification			Unit	Remarks
				Min	Typ	Max		
Tx to ANT	Insertion loss		880.4~914.6	-	2.2	3.2	dB (*1)	
			882.4~912.6	-	1.9	2.5(*2)		
	Ripple		880.4~914.6	-	1.2	2.6	dB	
	VSWR	Tx	880.4~914.6	-	1.8	2.3	-	
		Ant	880.4~914.6	-	1.6	2.1		
	Input Power		880.4~914.6	29dBm, Ta=+50°C 10000h, WCDMA modulation			-	
	Absolute attenuation		10~793	35	38	-	dB	
			927.4~957.6	44(*2)	50	-	dB	
			1565.4~1605.9	45	52	-	dB	
			1760~1880	38	46	-	dB	
			2110~2170	30	41	-	dB	
			2400~2500	30	37	-	dB	
			2620~2745	30	36	-	dB	
			3520~4575	20	31	-	dB	
			5150~5850	10	17	-	dB	
ANT to Rx	Insertion loss		925.4~959.6	-	2.4	3.0	dB (*1)	
			927.4~957.6	-	2.2	2.6(*2)		
	Ripple		925.4~959.6	-	1.2	2.2	dB	
	VSWR	Ant	925.4~959.6	-	1.8	2.0	-	
		Rx	925.4~959.6	-	1.8	2.0		
	Absolute attenuation		882.4~912.6	50(*2)	55	-	dB	
			980~1045	10	28	-	dB	
			1045~2880	40	50	-	dB	
			3700~4800	35	50	-	dB	
			5550~5760	30	38	-	dB	
Tx to Rx	Isolation		882.4~912.6	55(*2)	60	-	dB	
			927.4~957.6	50(*2)	52	-	dB	
Terminating Impedance			Tx port	50			Ohm	Single-ended
			Rx port	50			Ohm	Single-ended
			Ant port	50 // 7.5nH (Q=∞)			Ohm	Single-ended
Operating Temperature				-20 to +85			°C	
Device size (L typ. x W typ. x H max.)				2.0 x 1.6 x 0.5			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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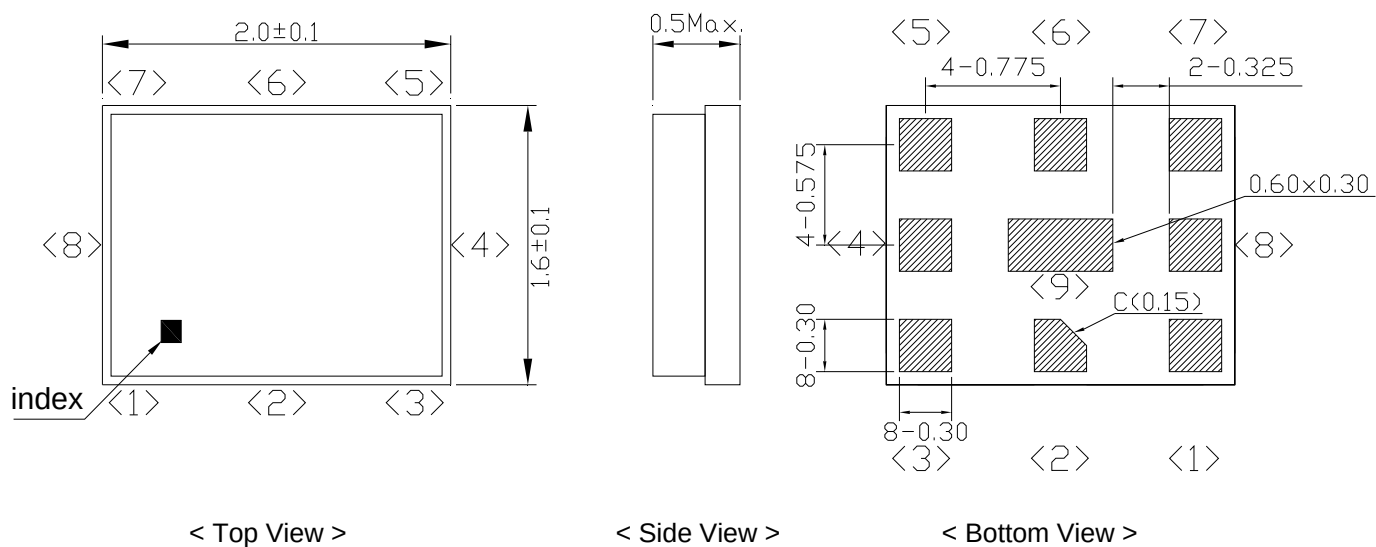
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Dimensions



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



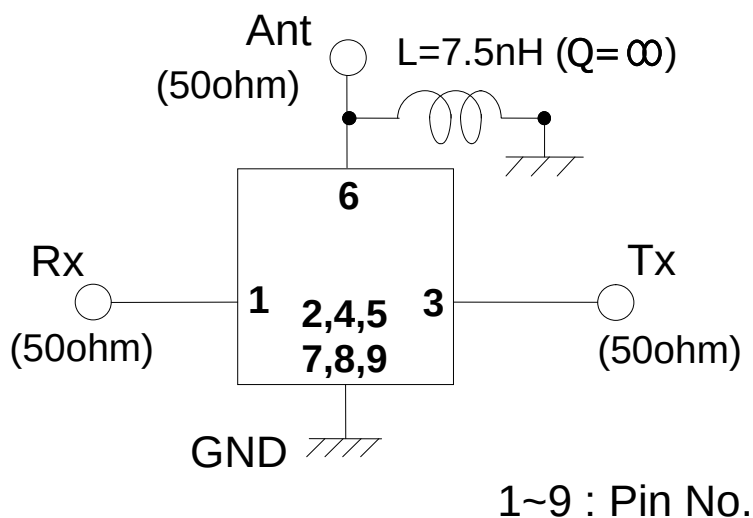
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Evaluation Circuit



Recommended foot print pattern

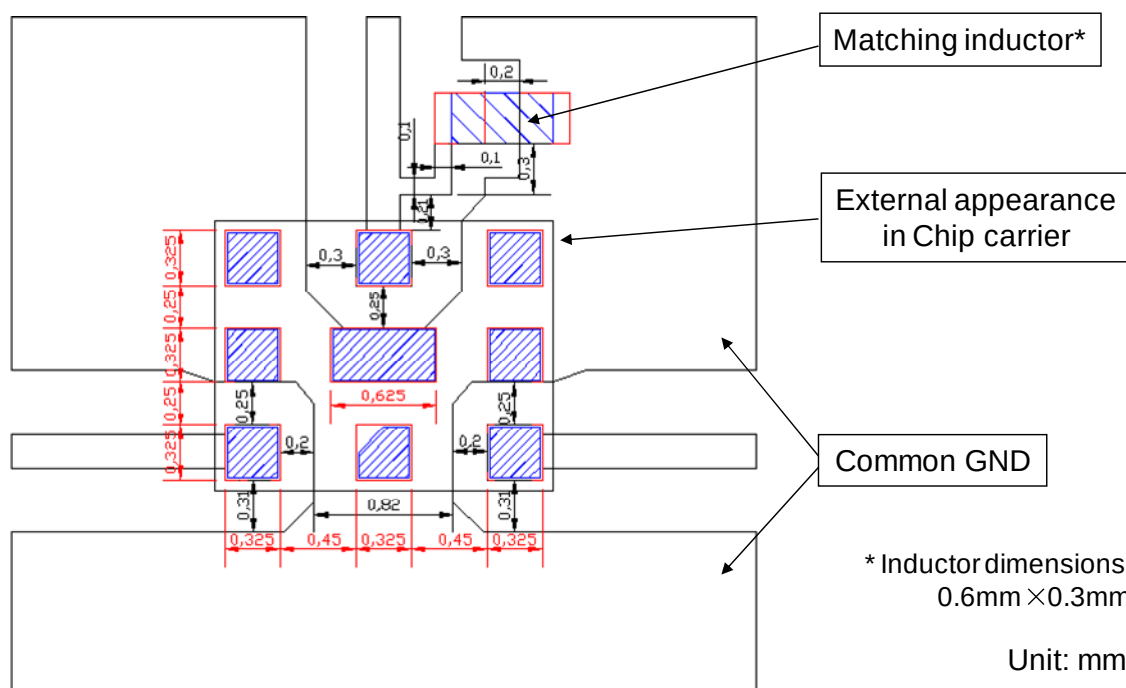


Figure 2. Recommended foot print pattern



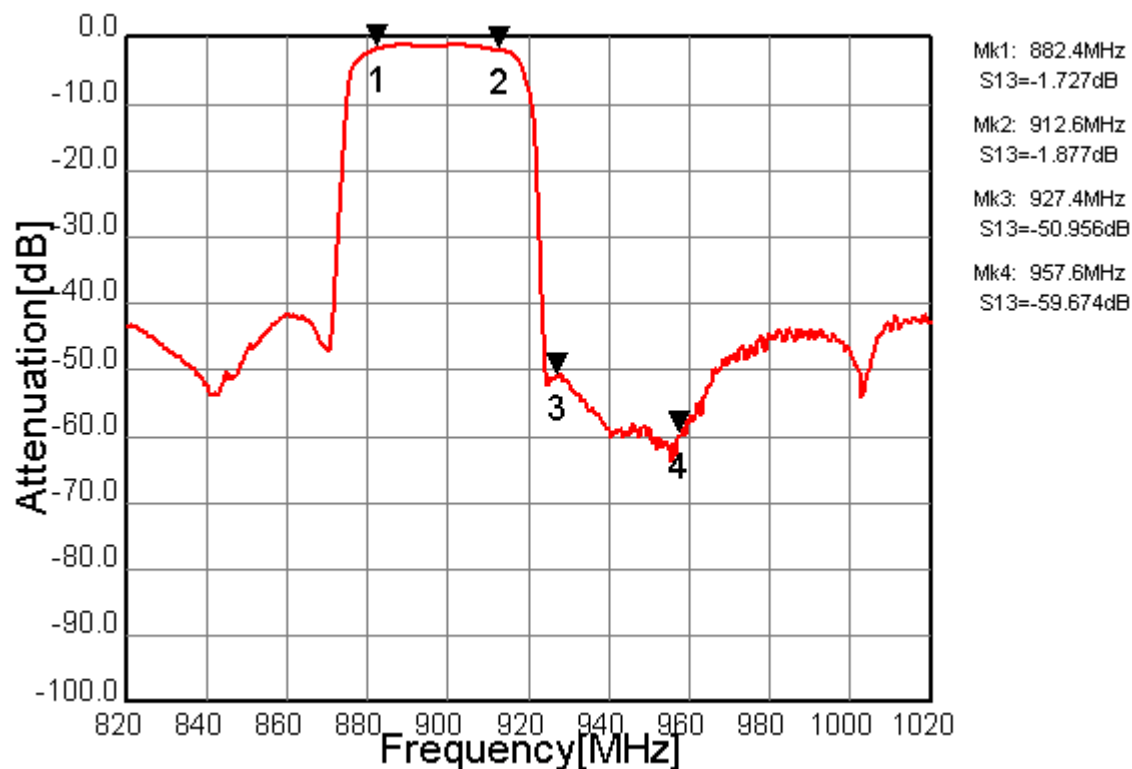
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Tx to Ant



Ant to Rx

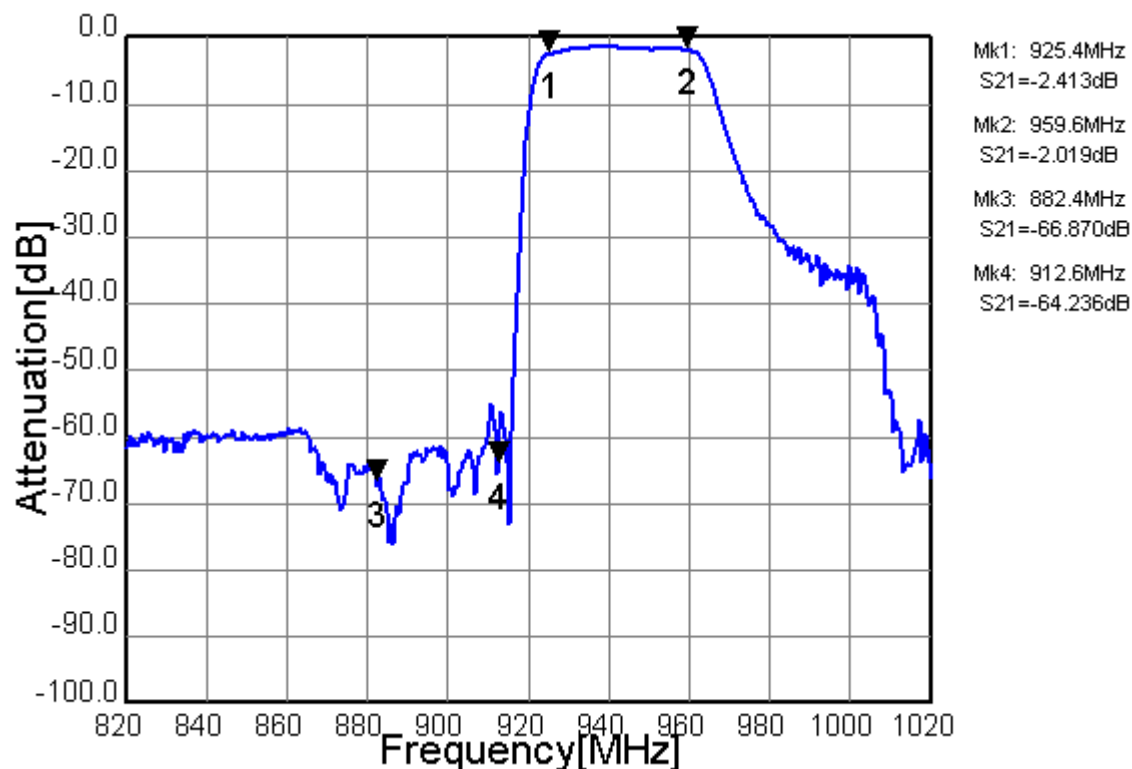


Figure 3-1. Electrical Characteristics

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

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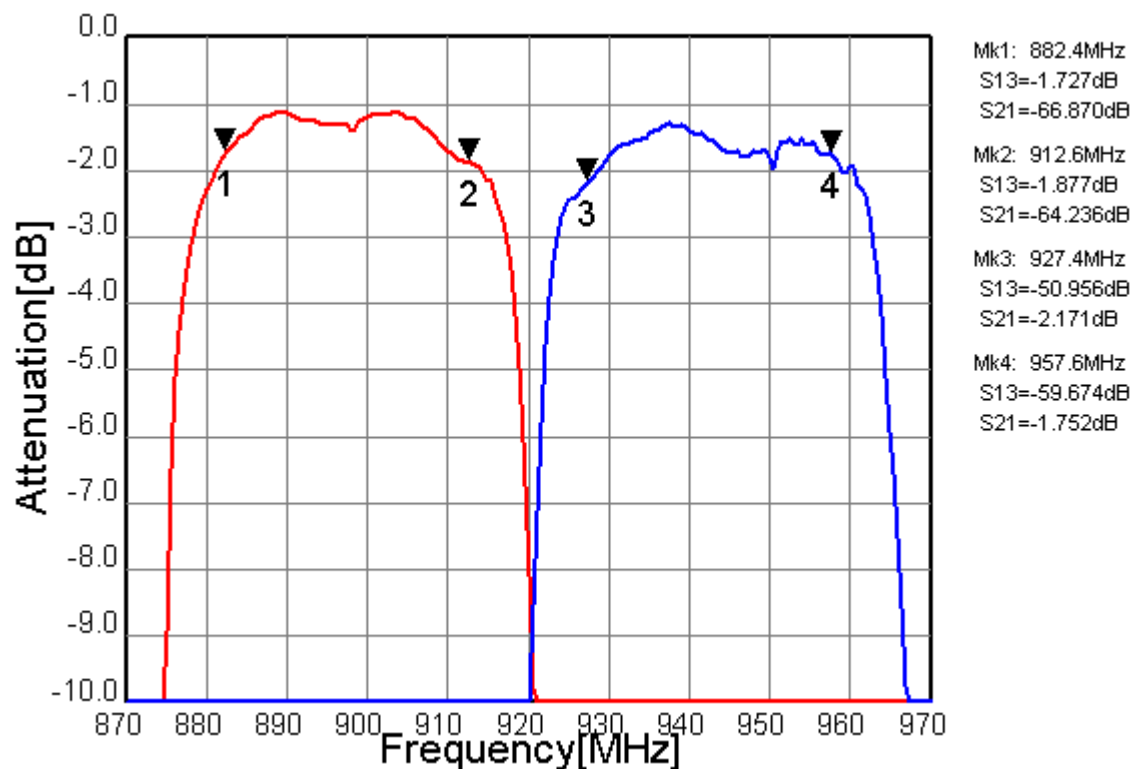
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

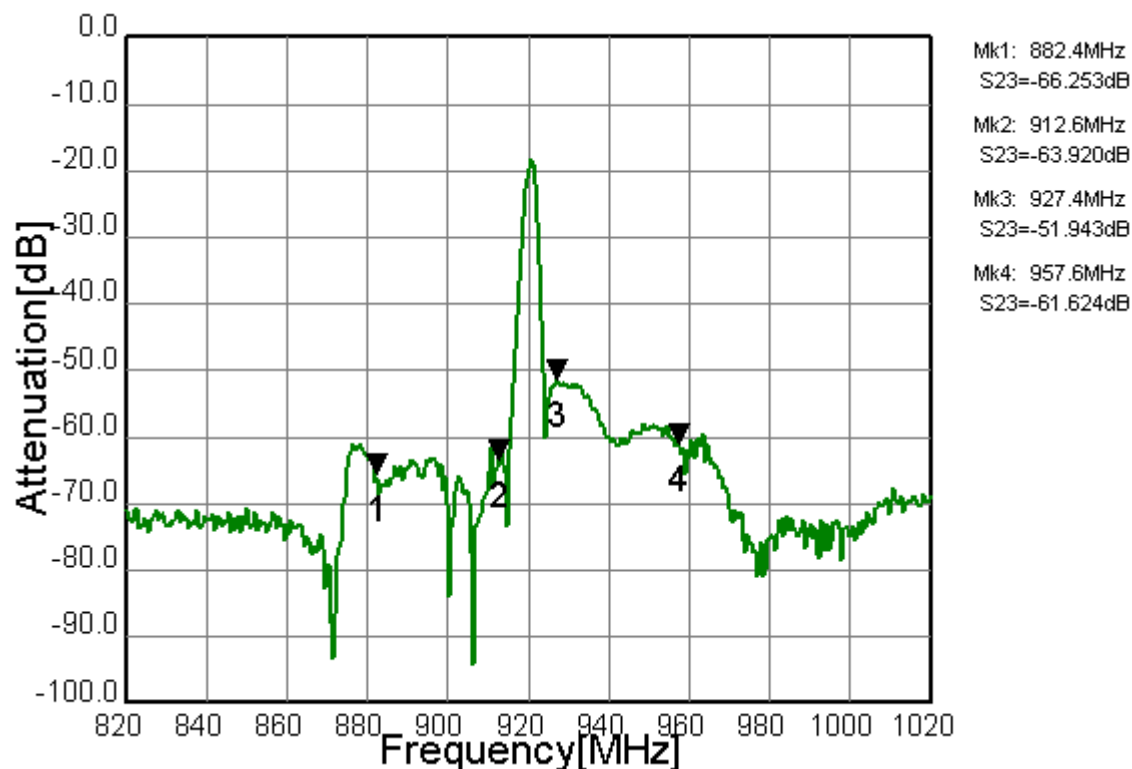


Figure 3-2. Electrical Characteristics

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

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Tx Port

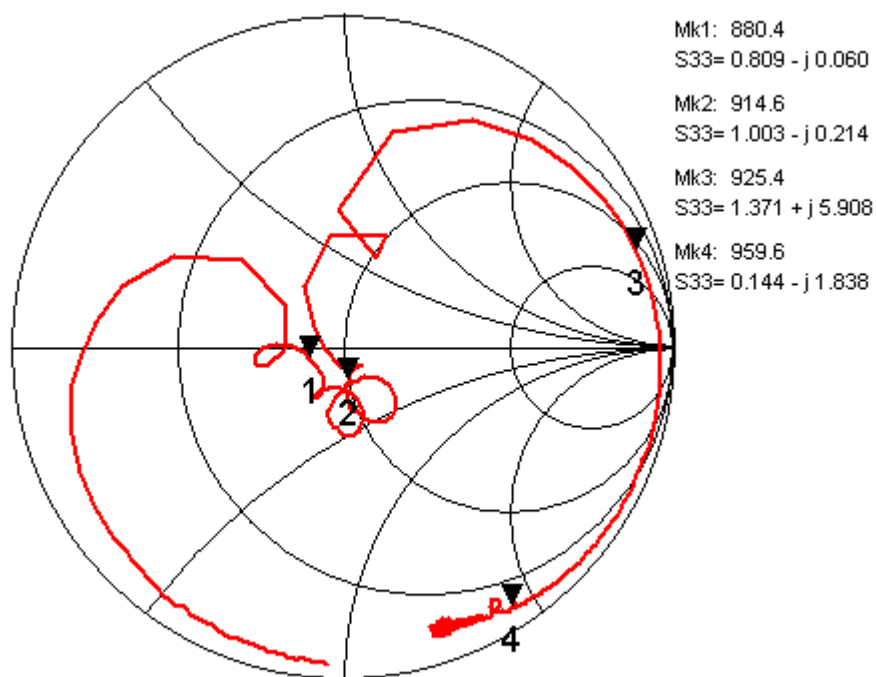
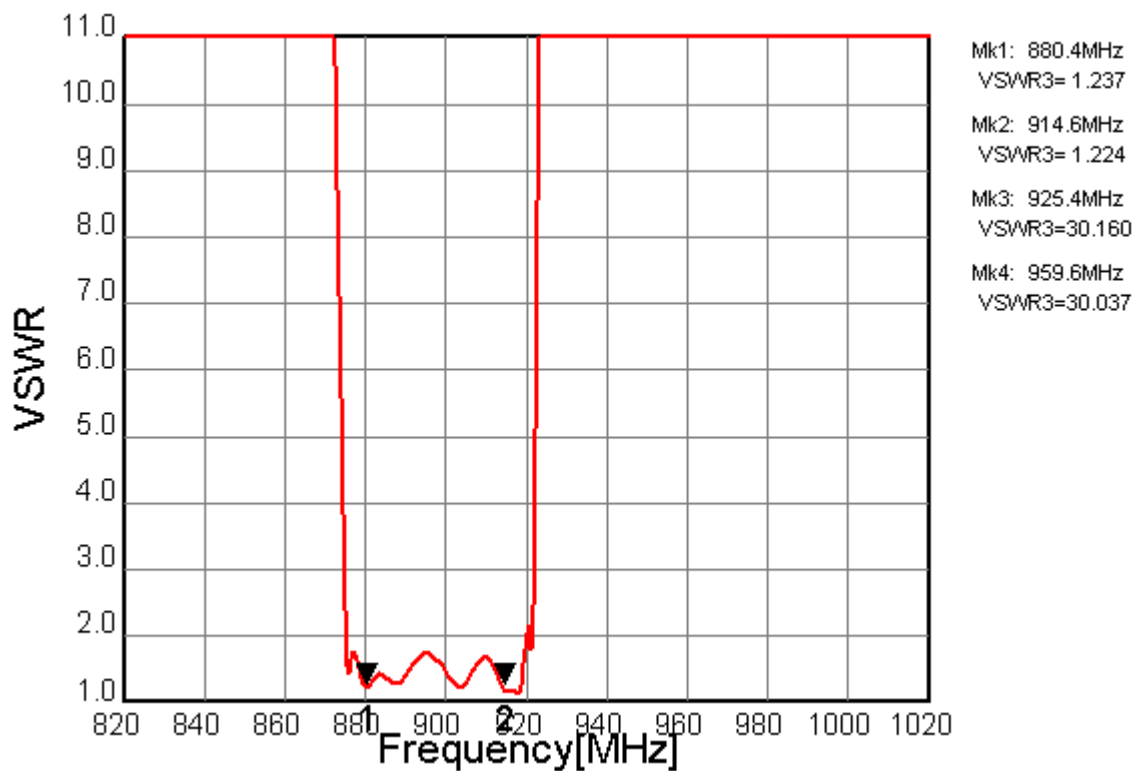


Figure 3-3. Electrical Characteristics

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Rx Port

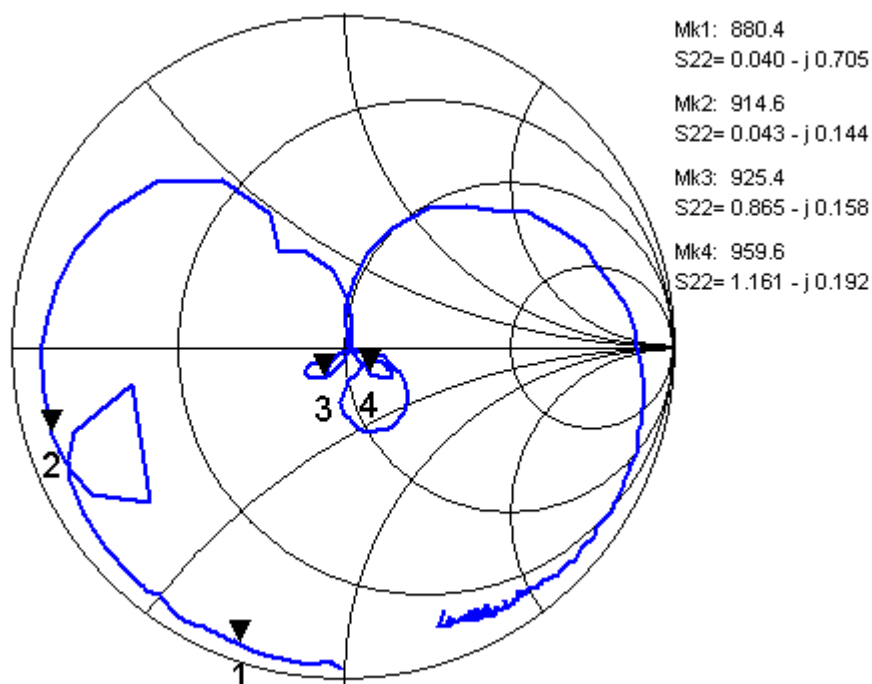
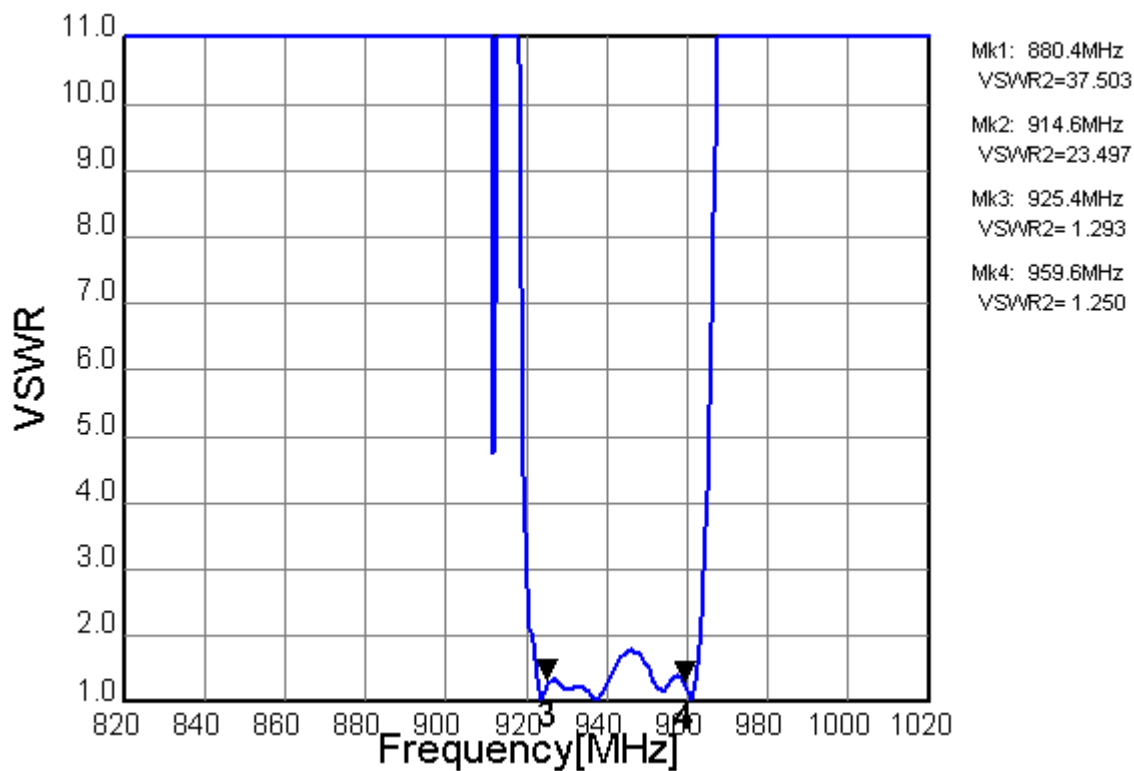


Figure 3-4. Electrical Characteristics

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Ant Port

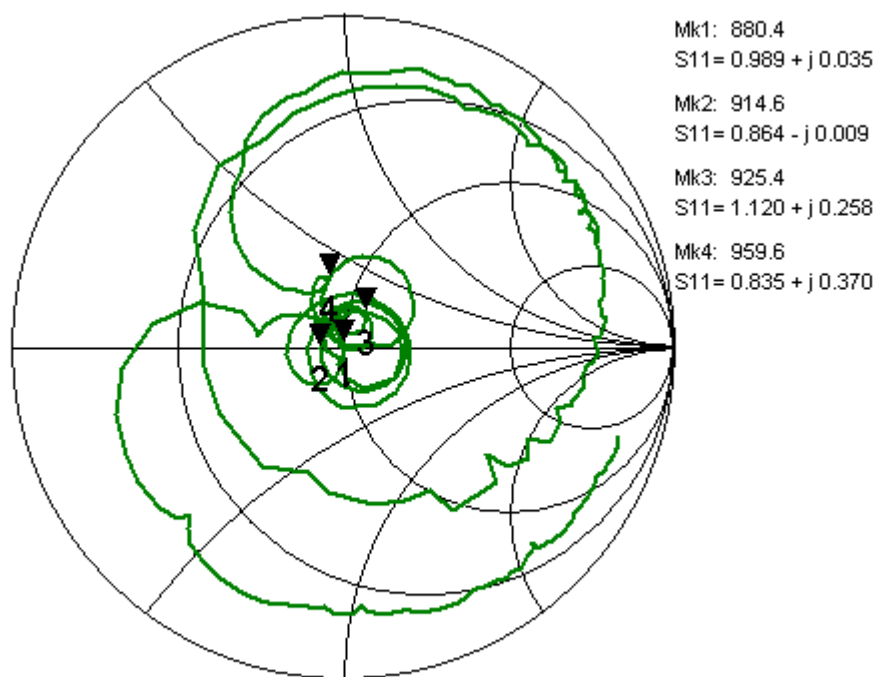
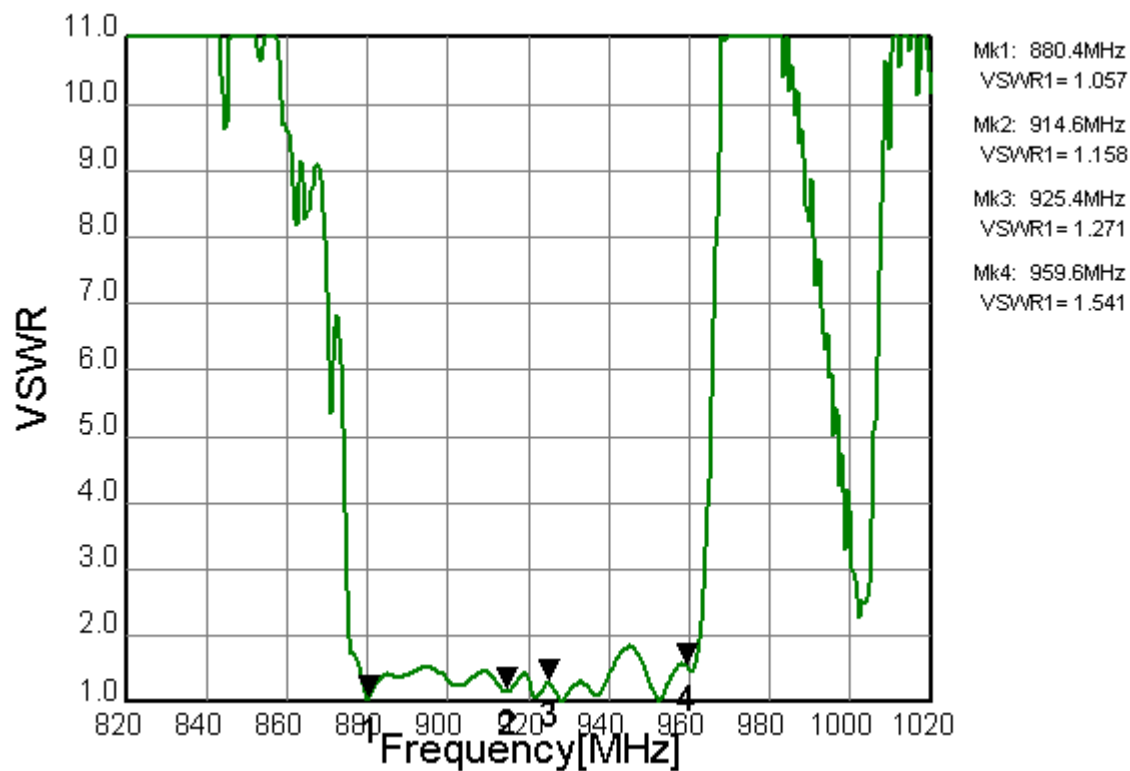


Figure 3-5. Electrical Characteristics

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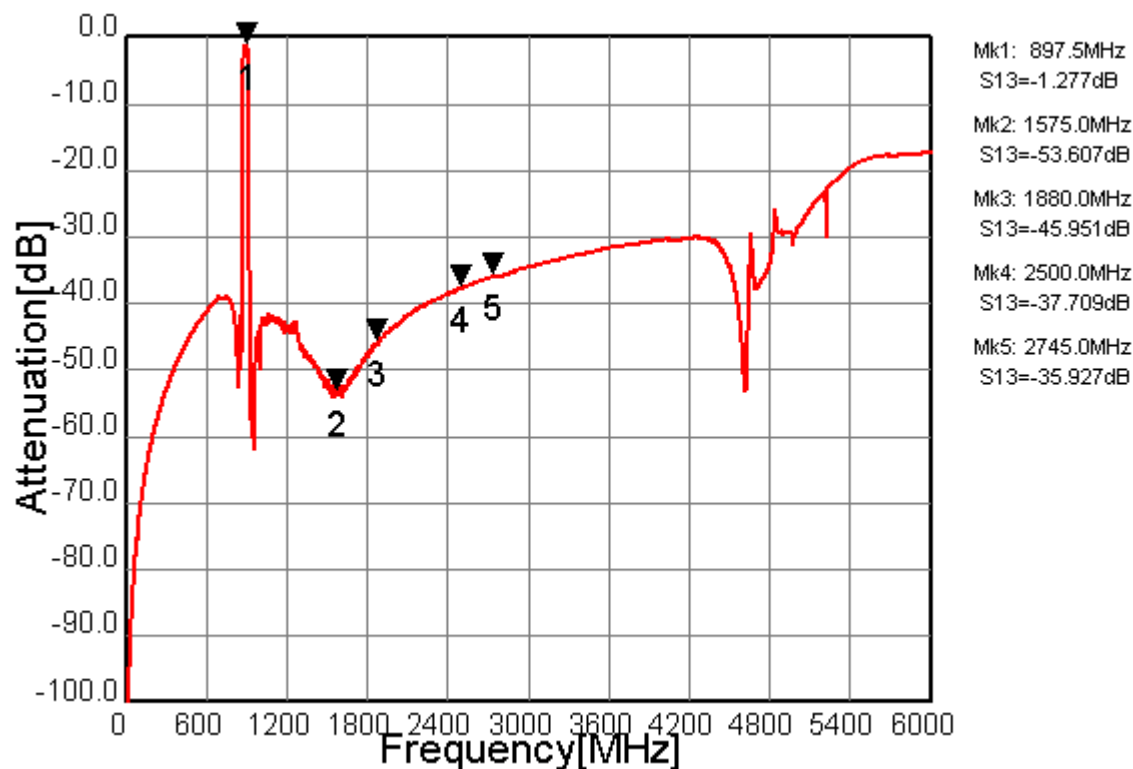
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Tx to Ant (Wide span)



Ant to Rx (Wide span)

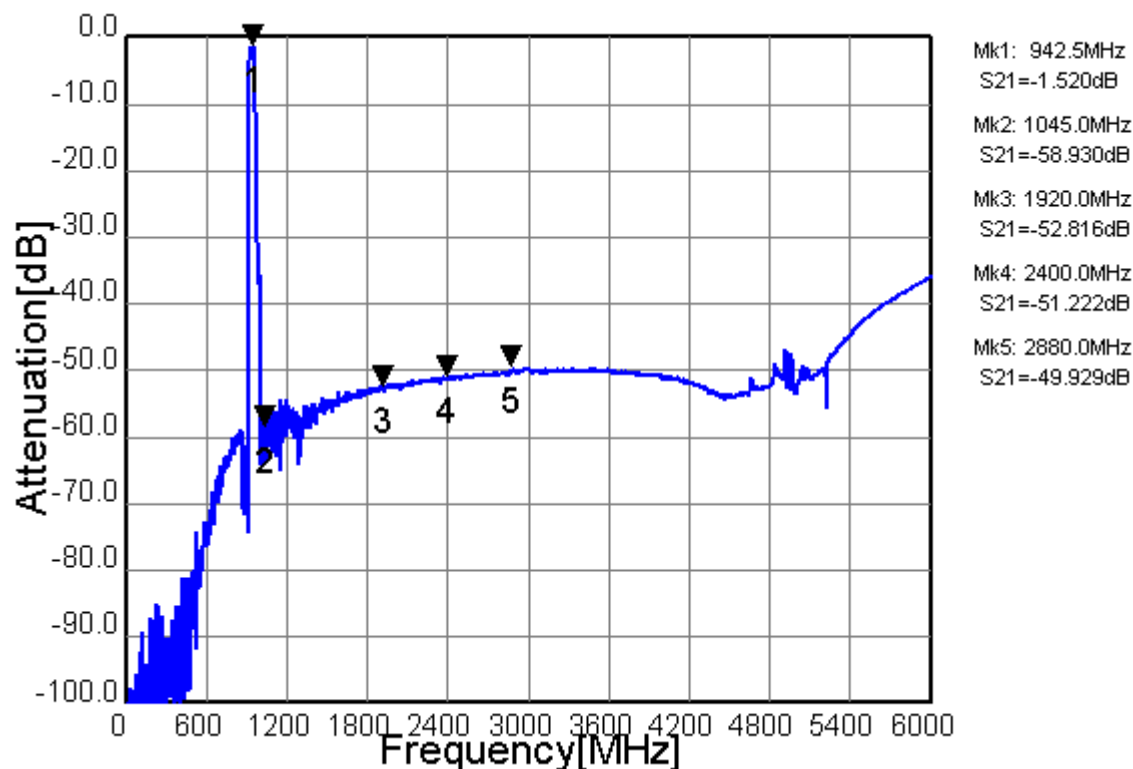


Figure 3-6. Electrical Characteristics



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Ordering Code

Ordering Code	Packing	Reel size	Status
D5PF942M5M3G9- Z	Tape & Reel	3,000 pcs.	MP
D5PF942M5M3G9- ZA	Tape & Reel	less than 3,000 pcs.	MP
D5PF942M5M3G9- Y	Tape & Reel	15,000 pcs.	MP
D5PF942M5M3G9-Q	Bulk	few pcs.	MP

*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives..

*MP : Mass Production

Notice

All of the contents specified herein are subject to change without notice due to technical improvements, etc.

Please contact Taiyo Yuden Co., Ltd. for further details of product specifications.

Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.