



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band II Duplexer	Date	December 13, 2011
Part Number	D6PF1G960M3B6	Version 2.0ba	

Table 1. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks	
			Min	Typ	Max			
Tx to ANT	Insertion loss	1850.4~1909.6	-	2.2	3.0	dB (*1)	-20 to +85 °C	
		1850.6~1909.4	-	2.2	3.0			
	Ripple	1850.4~1909.6	-	1.1	2.0	dB		
	VSWR	ANT	1850.4~1909.6	-	1.6	2.0	-	
		Tx		-	1.7	2.0	-	
	Absolute attenuation	1570~1580	40	49	-	dB		
		1930.4~1989.6	44	51	-	dB	-20 to +85 °C	
		1930.6~1989.4	42	51	-	dB		
		3700~3820	22	32	-	dB		
		5550~5730	15	26	-	dB		
Input Power	1850.4~1909.6	+29dBm, Ta=+50°C 50kh,CW			dBm			
ANT to Rx	Insertion loss	1930.4~1989.6	-	2.7	3.5	dB (*1)	-20 to +85 °C	
		1930.6~1989.4	-	2.7	3.5			
	Ripple	1930.4~1989.6	-	1.2	2.2	dB		
	VSWR	ANT	1930.4~1989.6	-	1.7	2.0	-	
		Rx		-	1.7	2.0	-	
	Absolute attenuation	1850.4~1909.6	45	53	-	dB	-20 to +85 °C	
1850.6~1909.4		45	53	-	dB			
Tx to Rx	Isolation	1850.4~1909.6	51	55	-	dB	-20 to +85 °C	
		1850.6~1909.4	51	55	-	dB		
		1930.4~1989.6	48	52	-	dB	-20 to +85 °C	
		1930.6~1989.4	47	52	-	dB		
Terminating Impedance	Tx port	50			Ohm	Single-ended		
	Rx port	50			Ohm	Single-ended		
	Ant port	50 // 4.7nH			Ohm	Single-ended		
Operating Temperature		-30 to +85			°C			
Device size (LxWxH)		2.0 x 1.6 x 0.57 Max			mm			

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

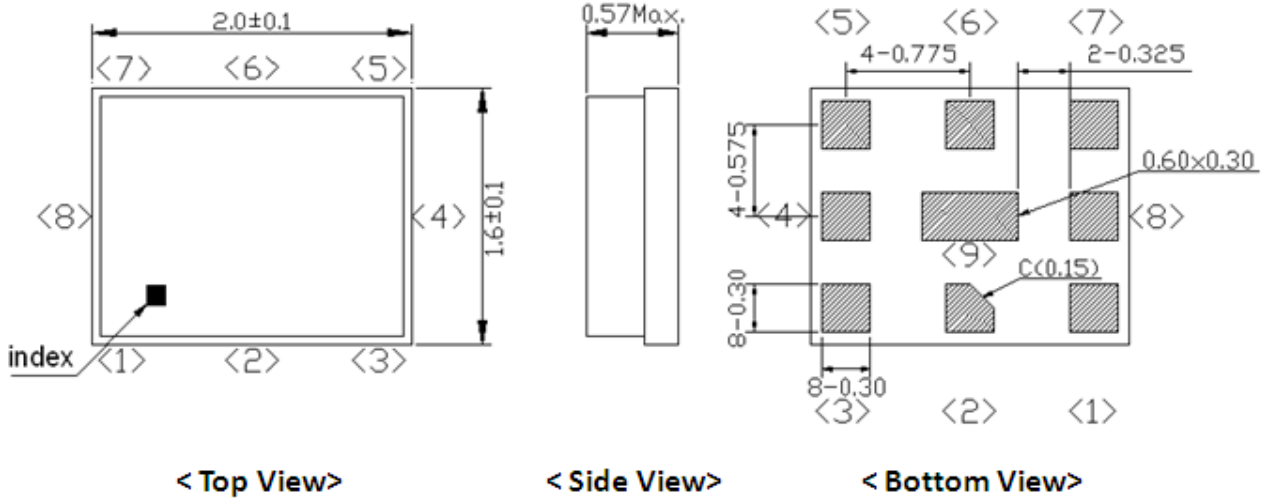


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Dimensions



Unit: mm

Pin Configuration

Pin No.	Pin name	Description
1	Rx	Receiver Pin
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

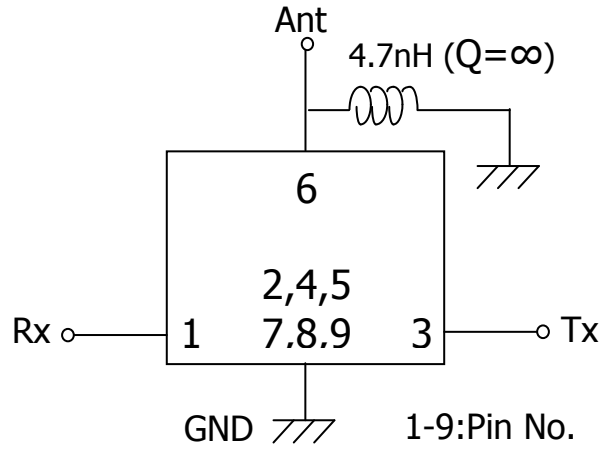


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Evaluation Circuit



Recommended foot print pattern

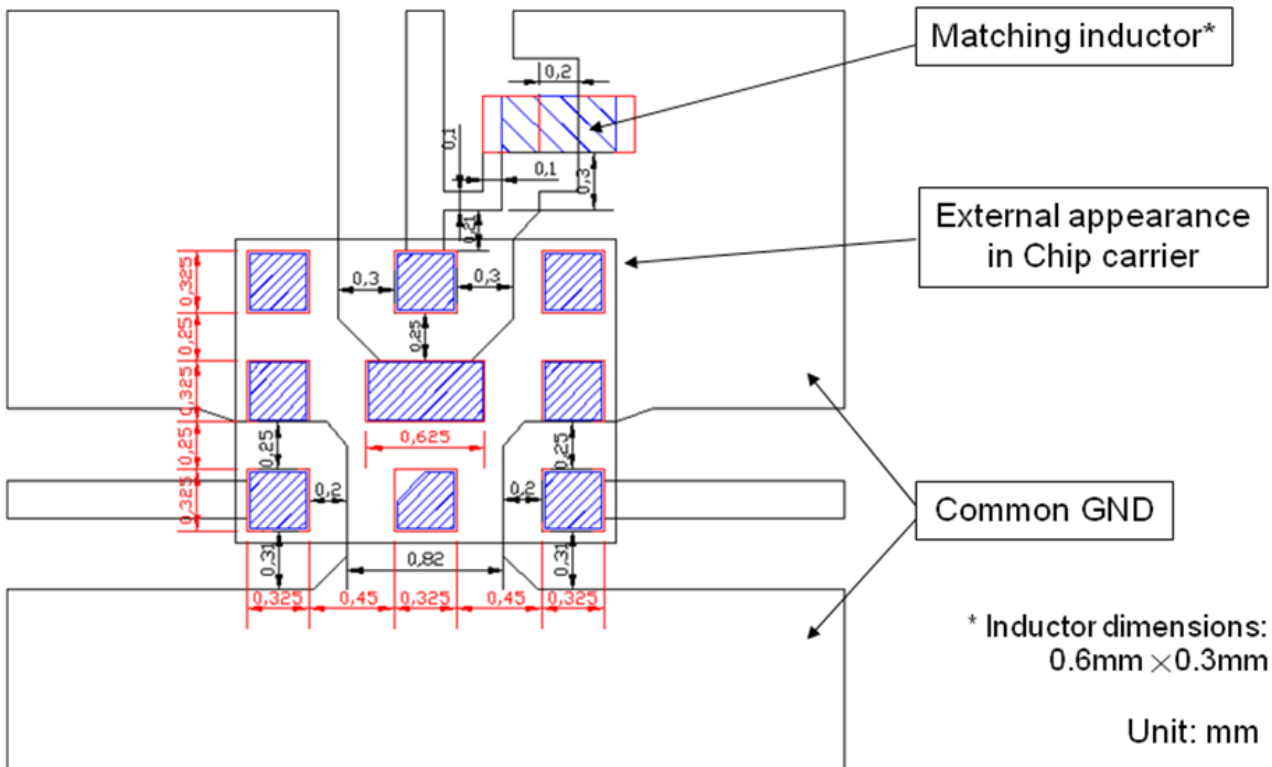


Figure 2. Recommended foot print pattern

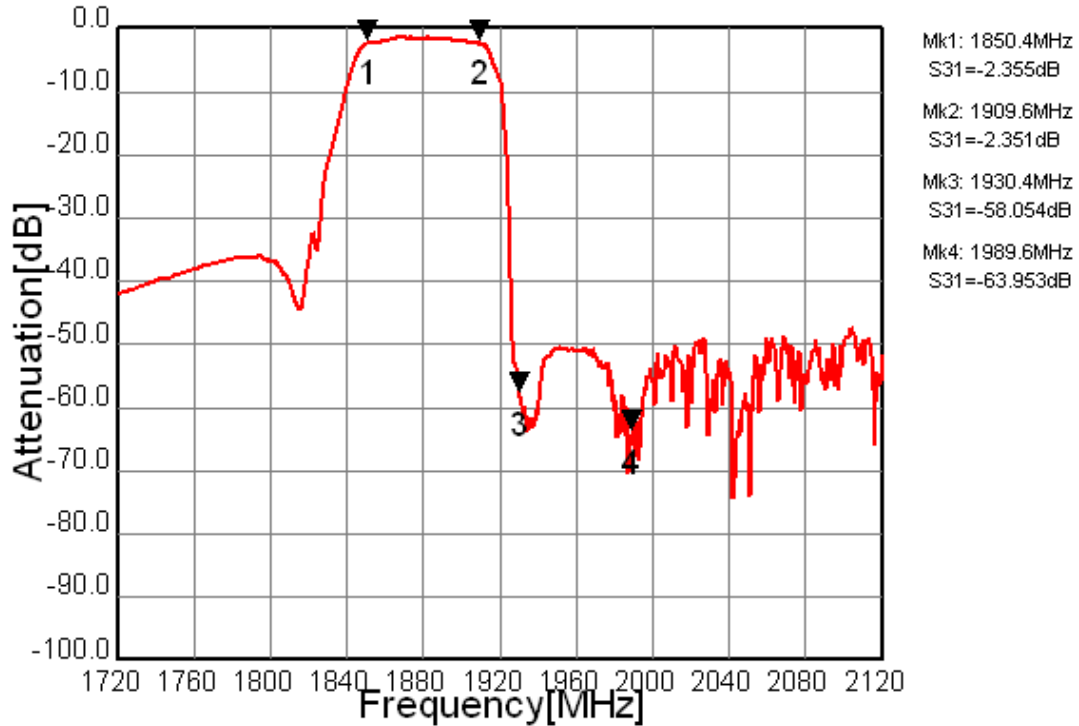


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Tx to Ant



Ant to Rx

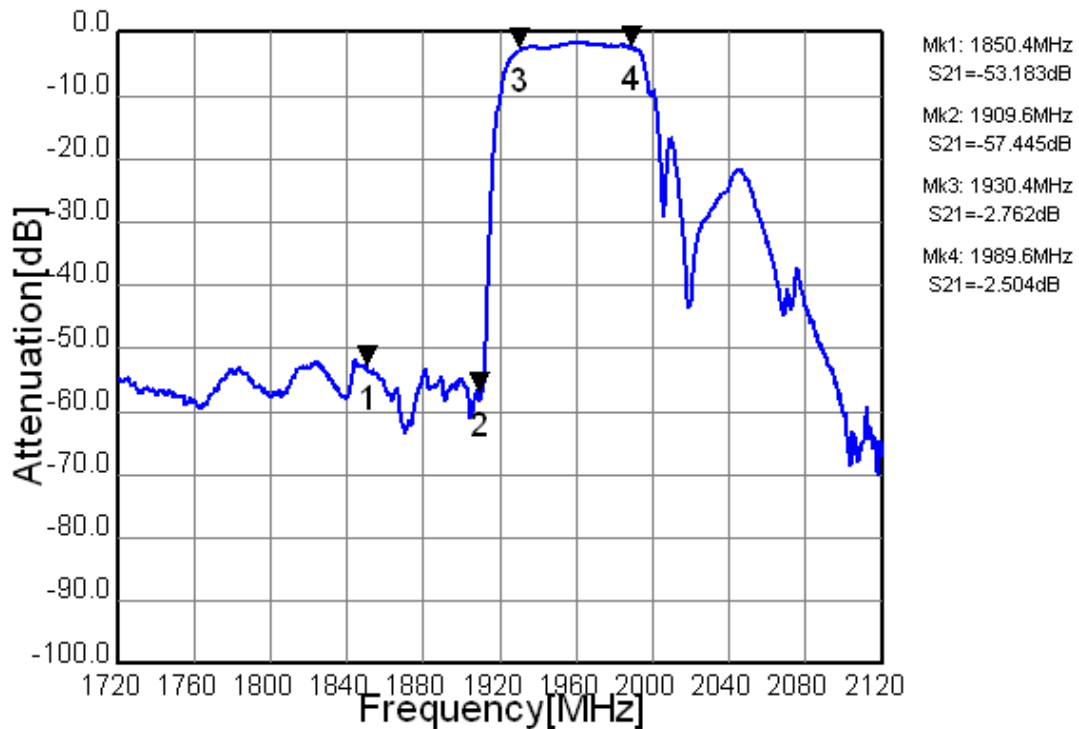


Figure 3-1. Electrical Characteristics

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

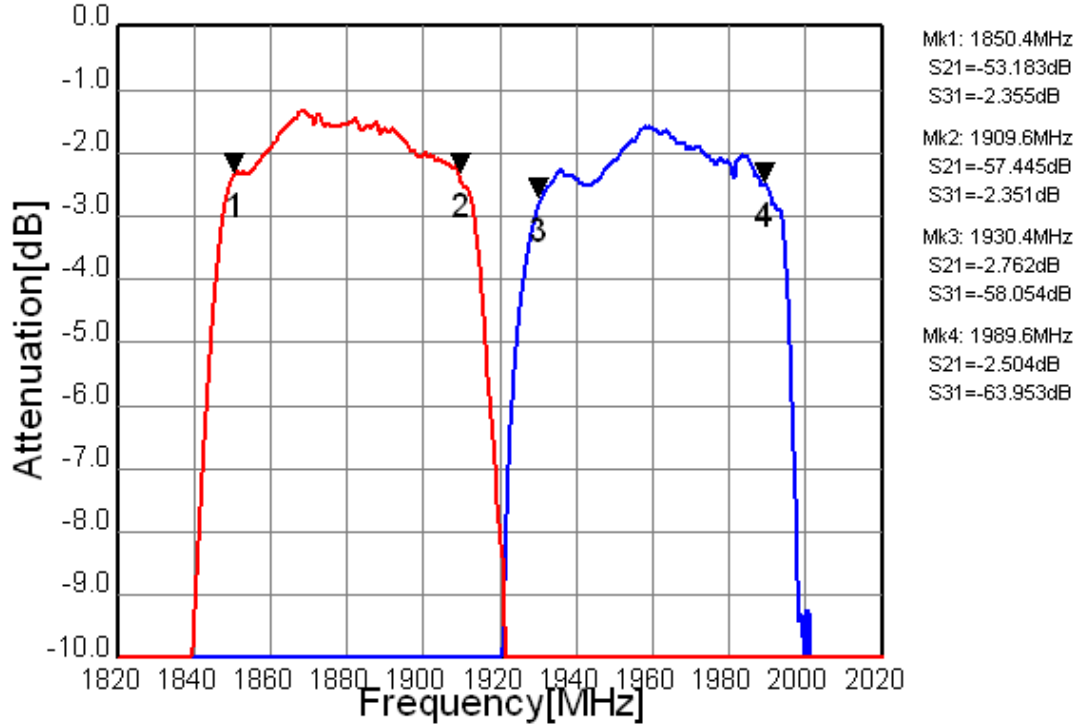


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Tx to Ant, Ant to Rx



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

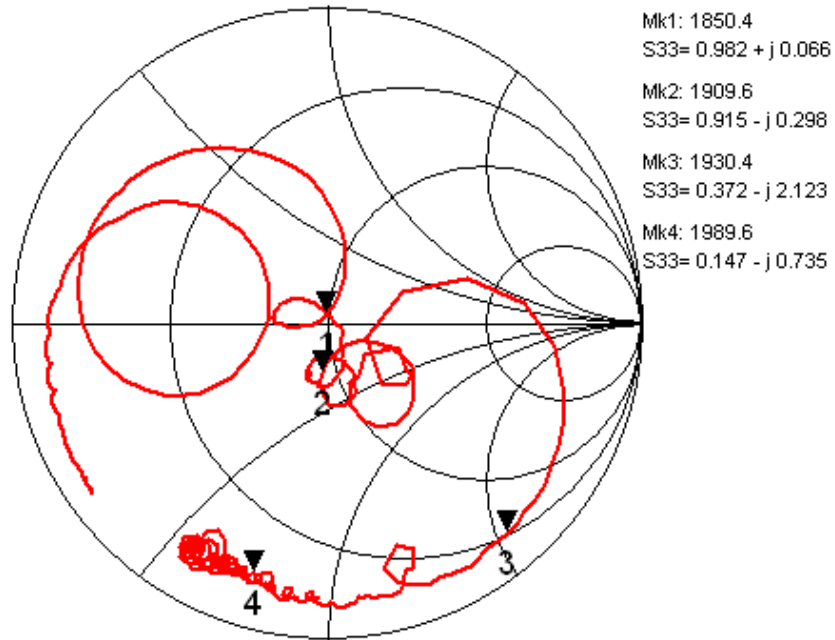
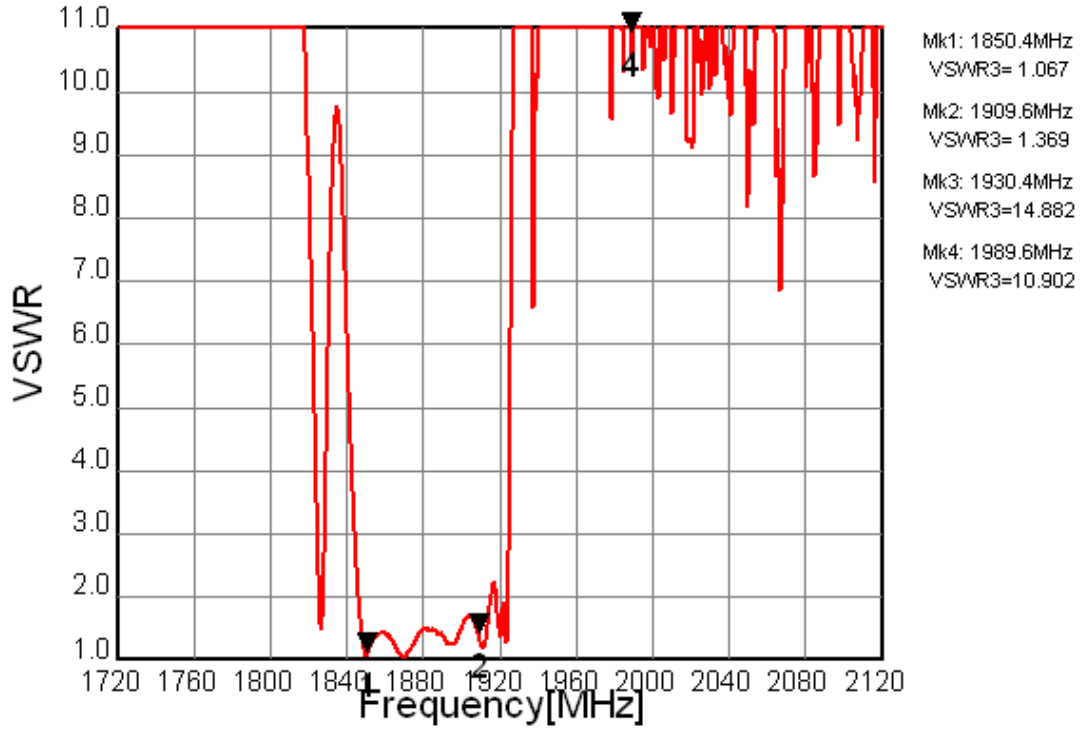


Figure 3-3. Electrical Characteristics



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Rx Port

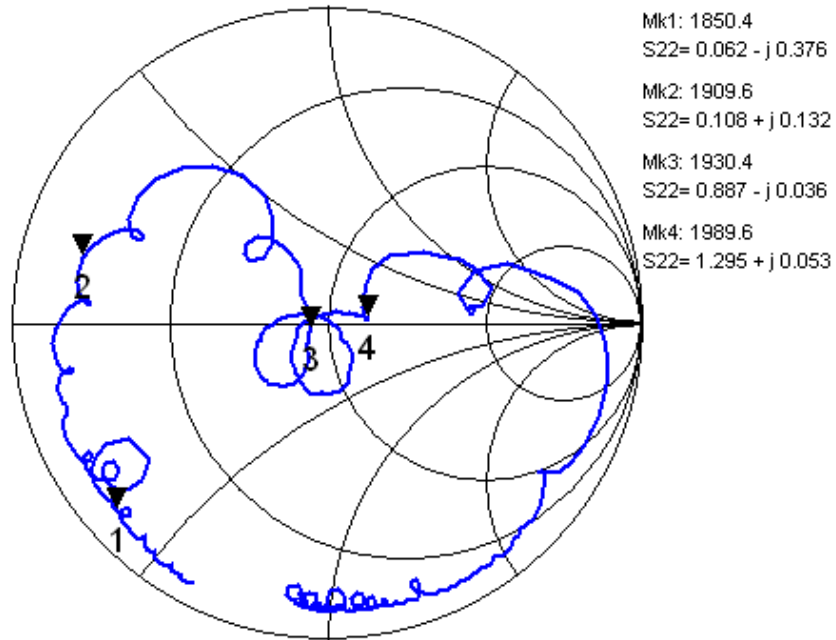
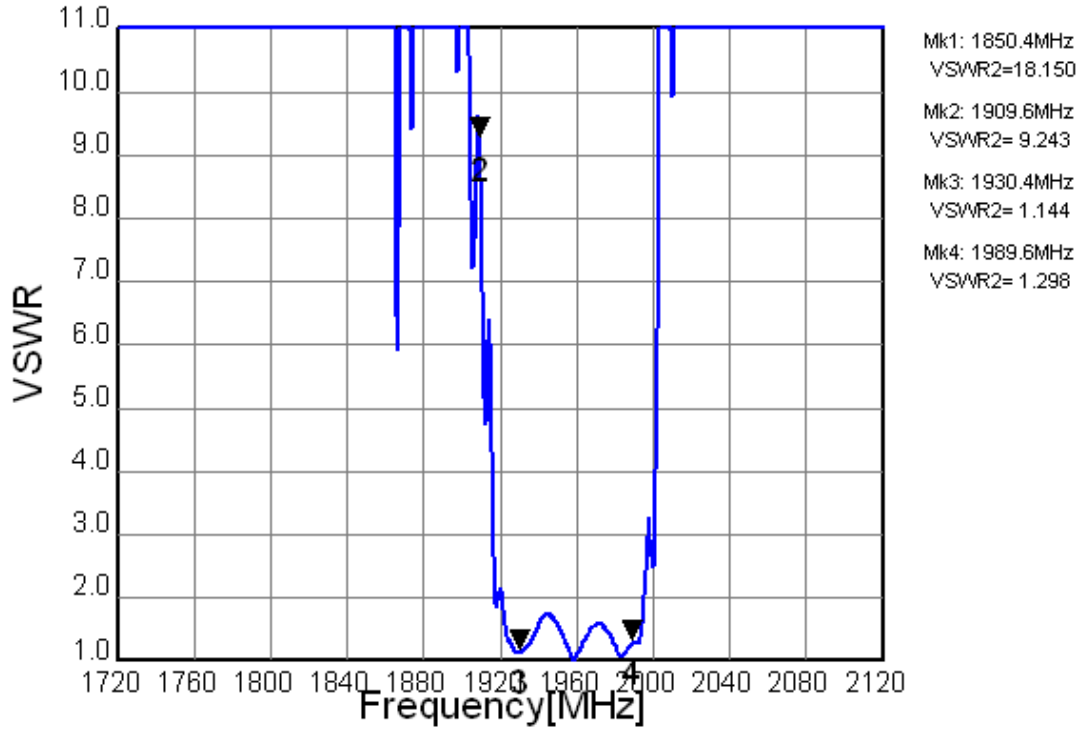


Figure 3-4. Electrical Characteristics



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Ant Port

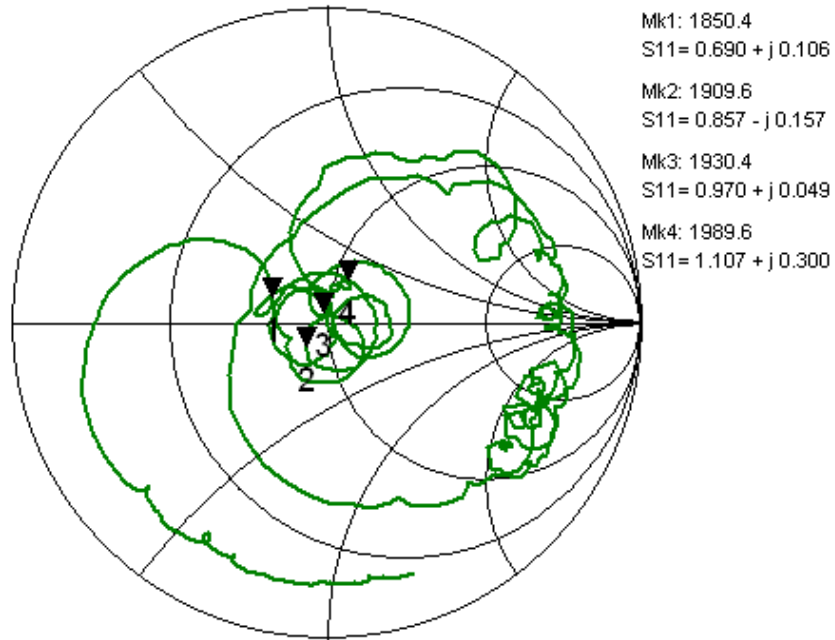
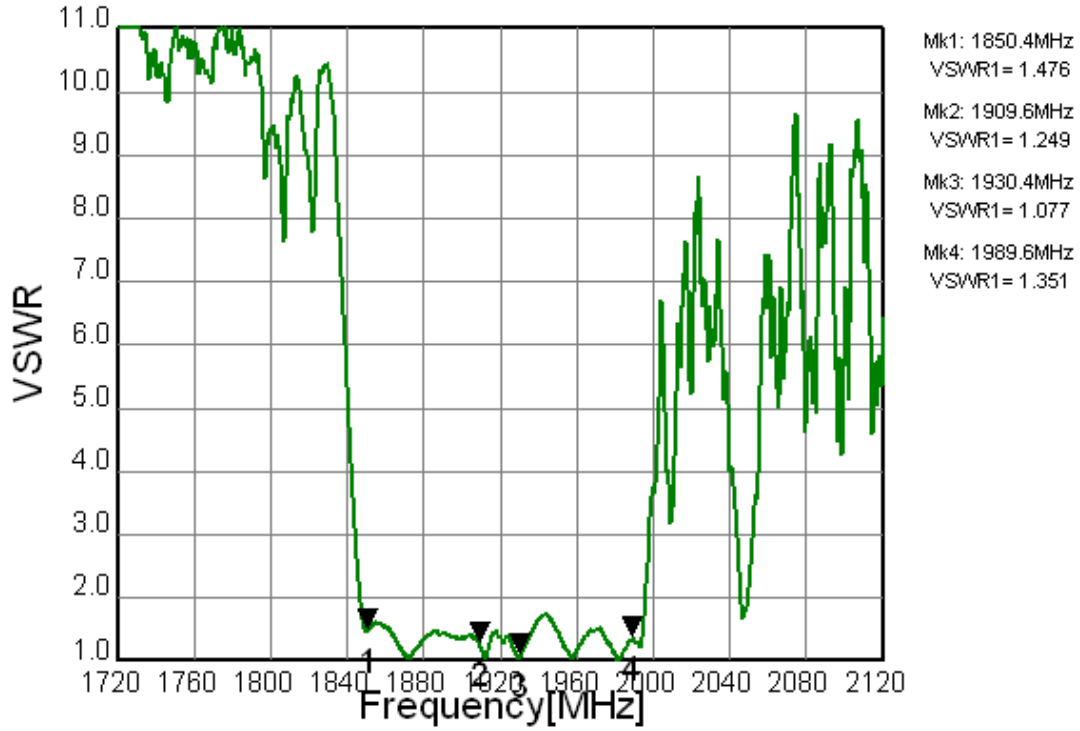


Figure 3-5. Electrical Characteristics

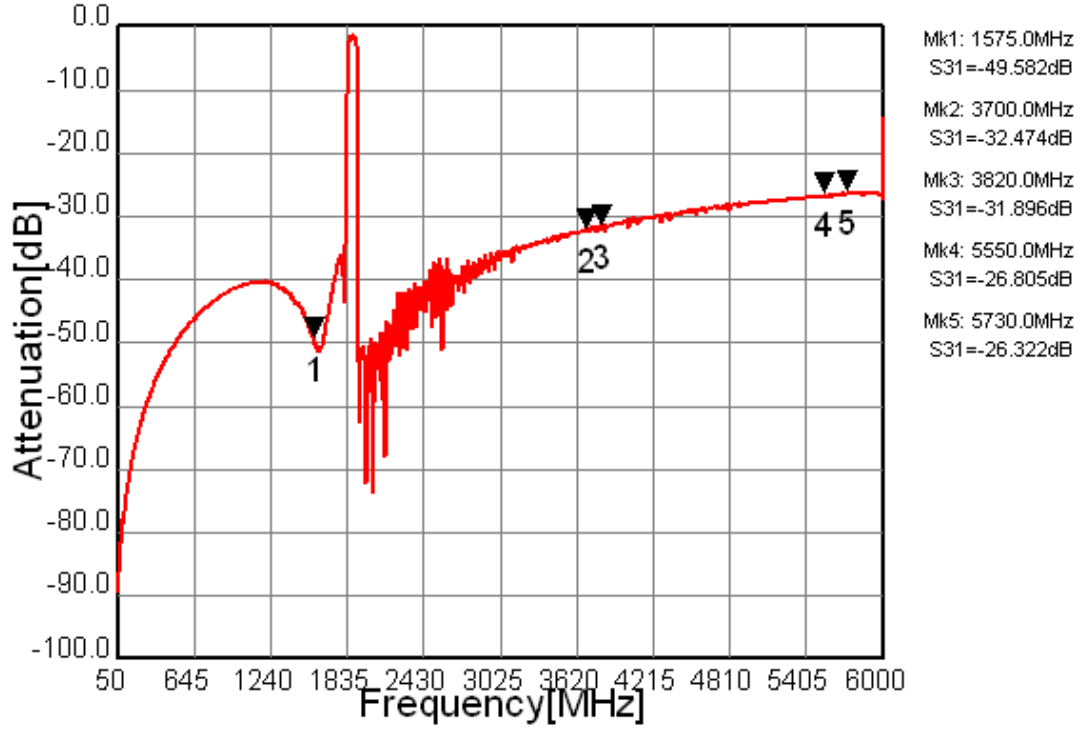


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Tx to Ant (Wide span)



Ant to Rx (Wide span)

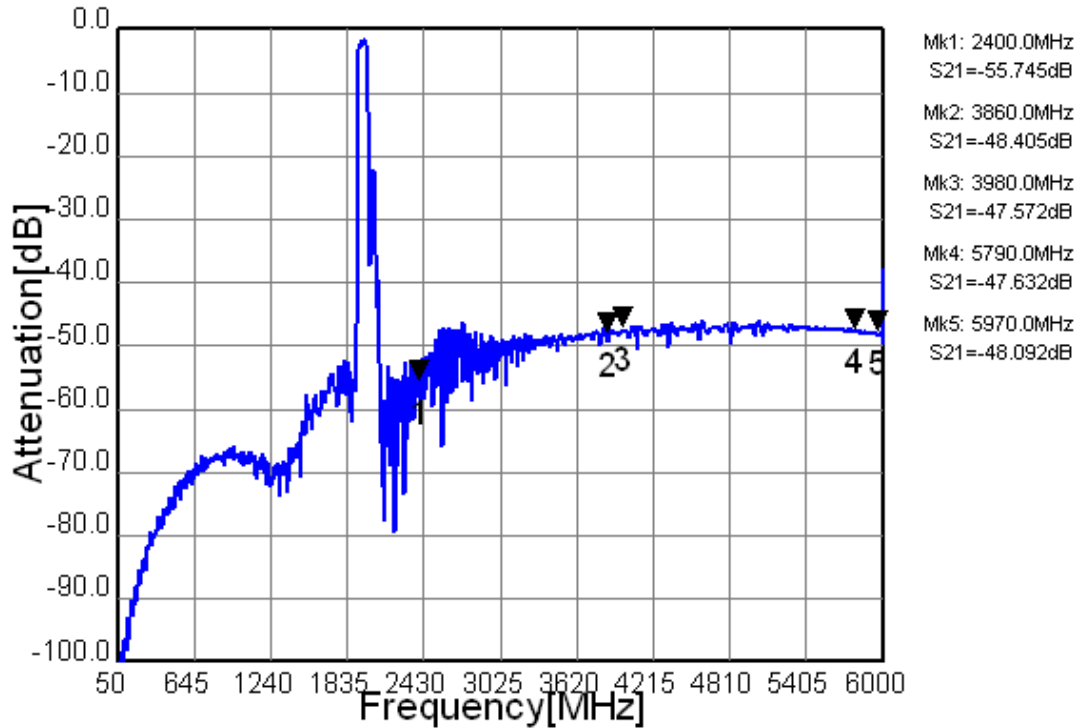


Figure 3-6. Electrical Characteristics



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Ordering Code

Ordering Code	Packing	Reel size	Status
D6PF1G960M3B6-Z	Tape & Reel	3,000 pcs.	MP
D6PF1G960M3B6-ZA	Tape & Reel	less than 3,000 pcs.	MP
D6PF1G960M3B6-Y	Tape & Reel	15,000 pcs.	MP
D6PF1G960M3B6-YA	Tape & Reel	less than 15,000 pcs.	MP
D6PF1G960M3B6-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.