



\* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	WCDMA Band 2/ CDMA2000 BC1/ LTE Band 2 Duplexer	Date	Nov. 04, 2015
Part Number	D6DA1G960K2B1	Ver.3.2ccb	Final

**Table 1. Electrical Specification**

Item		Condition (MHz)	Specification			Unit	Remarks	
			Min	Typ.	Max			
Tx to ANT	Insertion loss	1850.48~1909.52	-	1.9	3.0	dB(*1)	-20 to +85 °C	
		1852.4~1907.6(*2)	-	1.7	2.7	dB(*1)	-20 to +85 °C	
		1851.25~1908.75(*3)	-	1.8	2.9	dB(*1)		
	Ripple	1850.48~1909.52	-	1.5	2.2	dB		
	VSWR	ANT	1850.48~1909.52	-	1.6	2.0	-	
		Tx		-	1.6	2.1	-	
	Input power	1850.48~1909.52	+29dBm, Ta=+50oC, 50kh, CW			dBm	Support LTE	
	Absolute attenuation	1570~1580	35	38	-	dB		
1930.48~1989.52		42	51	-	dB	-20 to +85 °C		
1931.25~1988.75(*3)		41	51	-	dB			
3700~3820		20	34	-	dB			
5550~5730		15	27	-	dB			
ANT to Rx	Insertion loss	1930.48~1989.52	-	2.5	3.3	dB(*1)	-20 to +85 °C	
		1932.4~1987.6(*2)	-	2.2	3.0	dB(*1)	-20 to +85 °C	
		1931.25~1988.75(*3)	-	2.3	3.2	dB(*1)		
	Ripple	1930.48~1989.52	-	1.5	2.3	dB		
	VSWR	ANT	1930.48~1989.52	-	1.6	2.1	-	
		Rx		-	1.9	2.2	-	
Absolute attenuation	1850.48~1909.52	42	53	-	dB	-20 to +85 °C		
	1851.25~1908.75(*3)	43	53	-	dB			
Tx to Rx	Isolation	1850.48~1909.52	51	54	-	dB	-20 to +85 °C	
		1851.25~1908.75(*3)	51	54	-	dB		
		1930.48~1989.52	48	54	-	dB	-20 to +25 °C	
			51	54	-	dB	+25 to +85 °C	
		1932.4~1987.6(*2)	50	54	-	dB	-20 to +25 °C	
			51	54	-	dB	+25 to +85 °C	
		1931.25~1988.75(*3)	47	54	-	dB	-30 to +25 °C	
			51	54	-	dB	+25 to +85 °C	
Terminating Impedance	Tx port	50			Ohm	Single-ended		
	Rx port	50			Ohm	Single-ended		
	Ant port	50 // 3.9nH			Ohm	Single-ended		
Operating Temperature		-30 to +85			°C			
Device size (LxWxH)		1.8 x 1.4 x 0.57 Max			mm			

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

(\*2) The integrated loss over any 3.84MHz(+/- 1.92MHz) channel within the band.

(\*3) The integrated loss over any 1.25MHz(+/- 0.625MHz) channel within the band.

**TAIYO YUDEN**

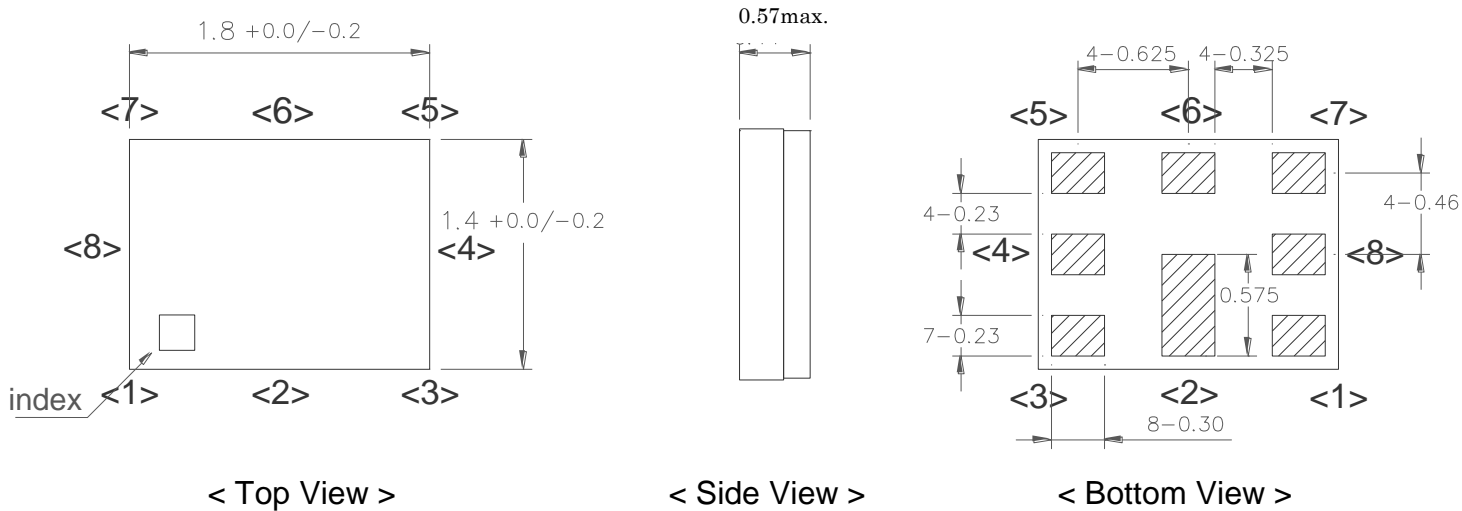


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### Dimensions



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

**Figure 1. Dimensions and Pin assignment**



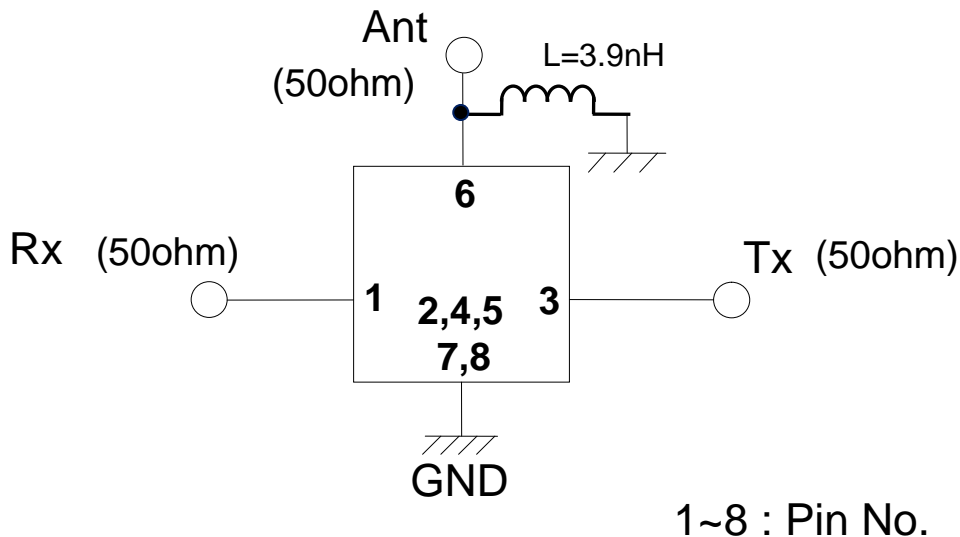
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### Evaluation Circuit



### Recommended foot print pattern

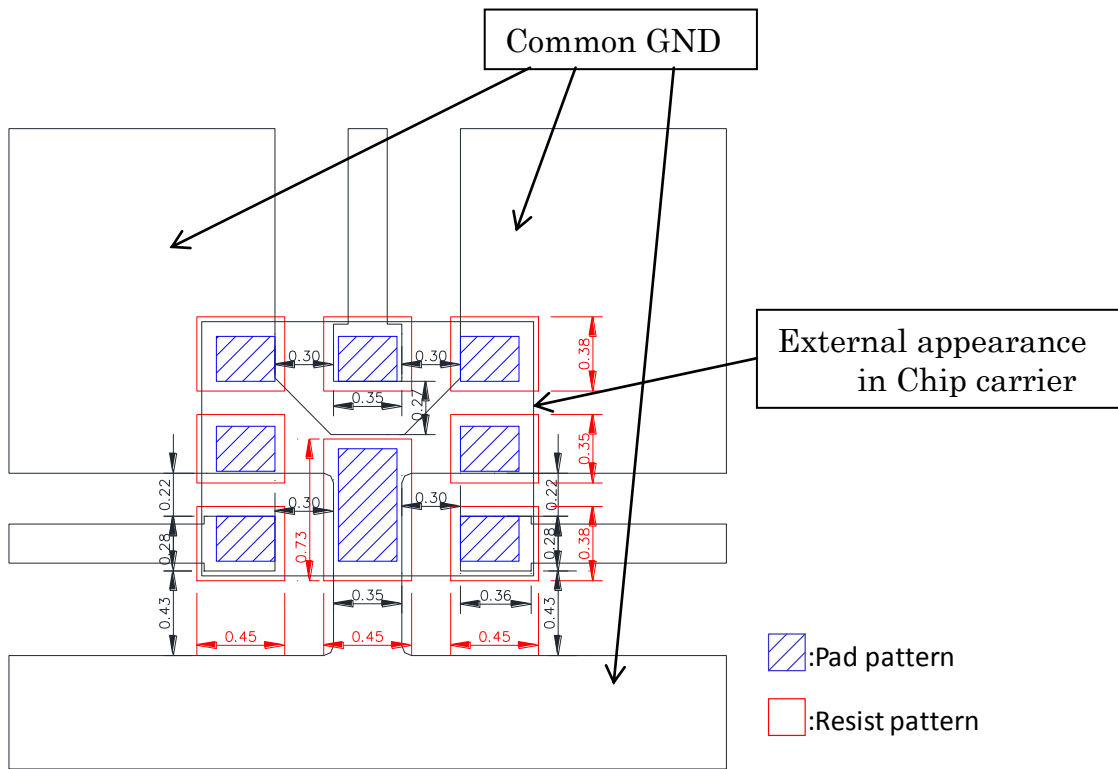


Figure 2. Recommended foot print pattern

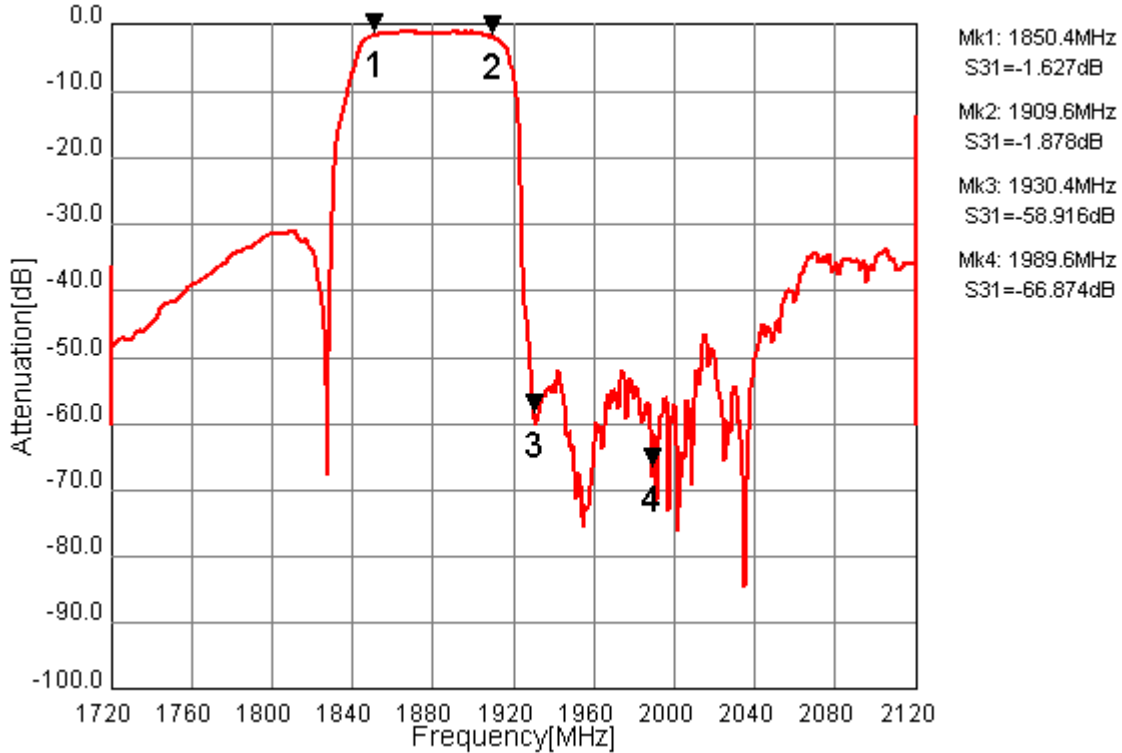


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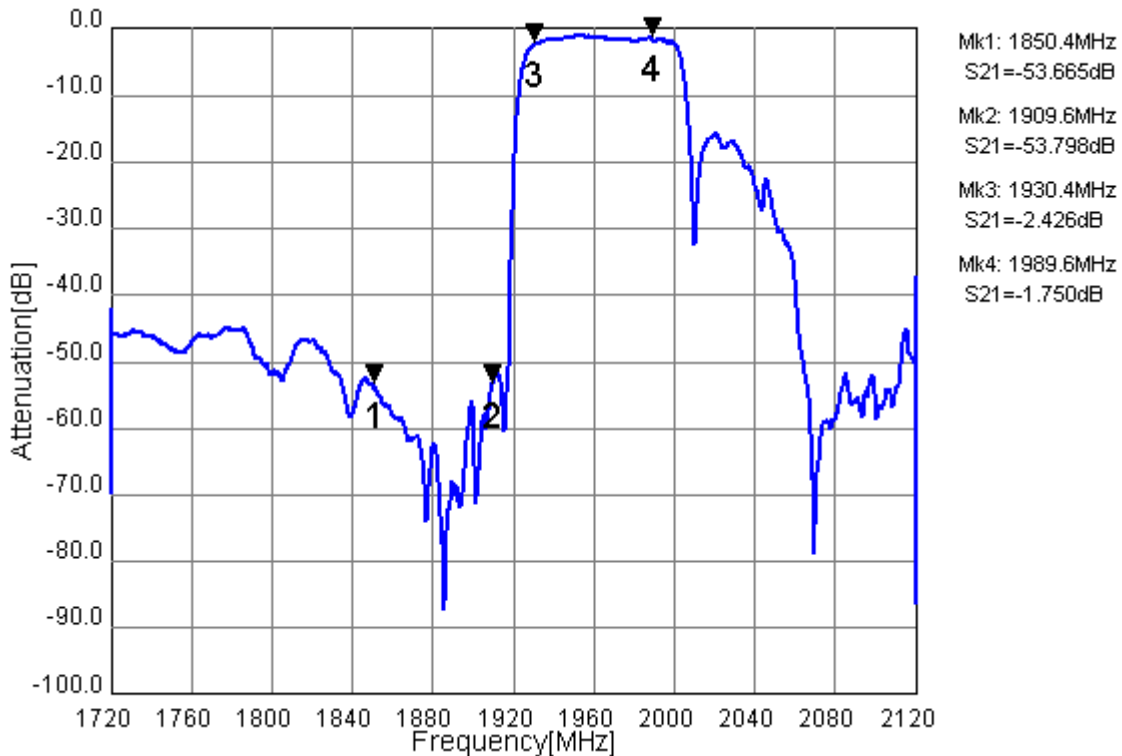
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### Tx to Ant



### Ant to Rx



**Figure 3-1. Electrical Characteristics**

These data **exclude** loss that comes from the test board.

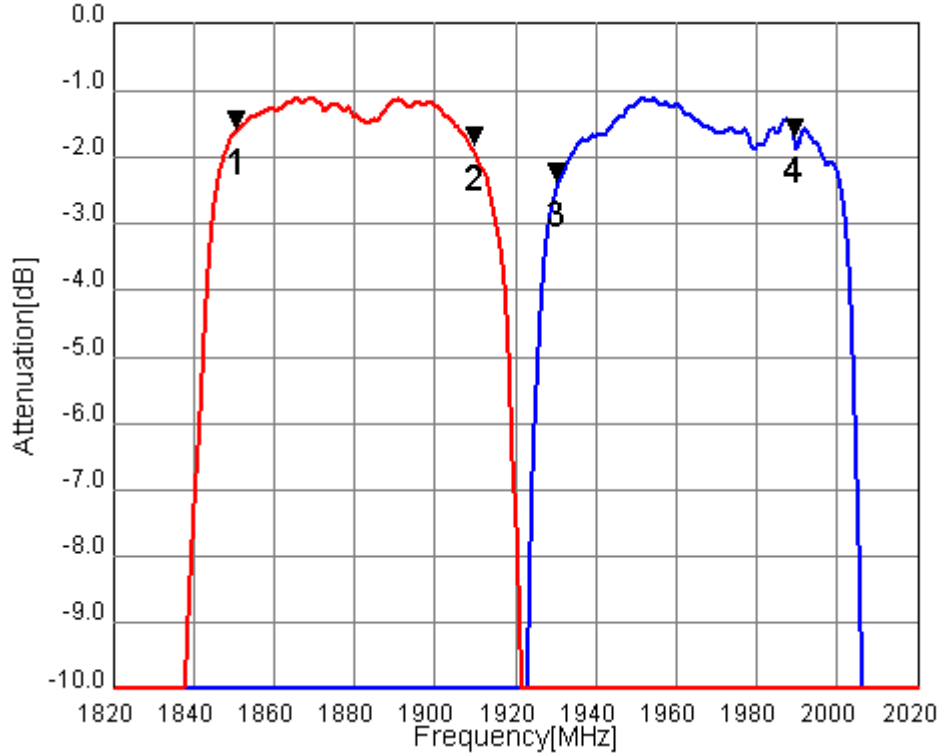


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### Tx to Ant, Ant to Rx



### Tx to Rx Isolation

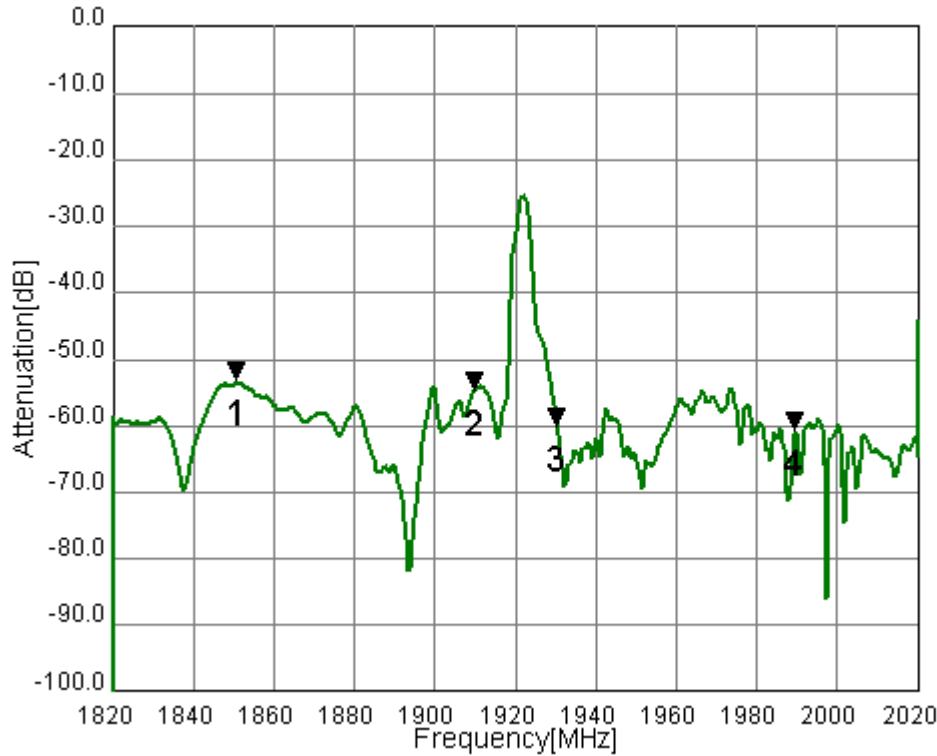


Figure 3-2. Electrical Characteristics

These data exclude loss that comes from the test board.

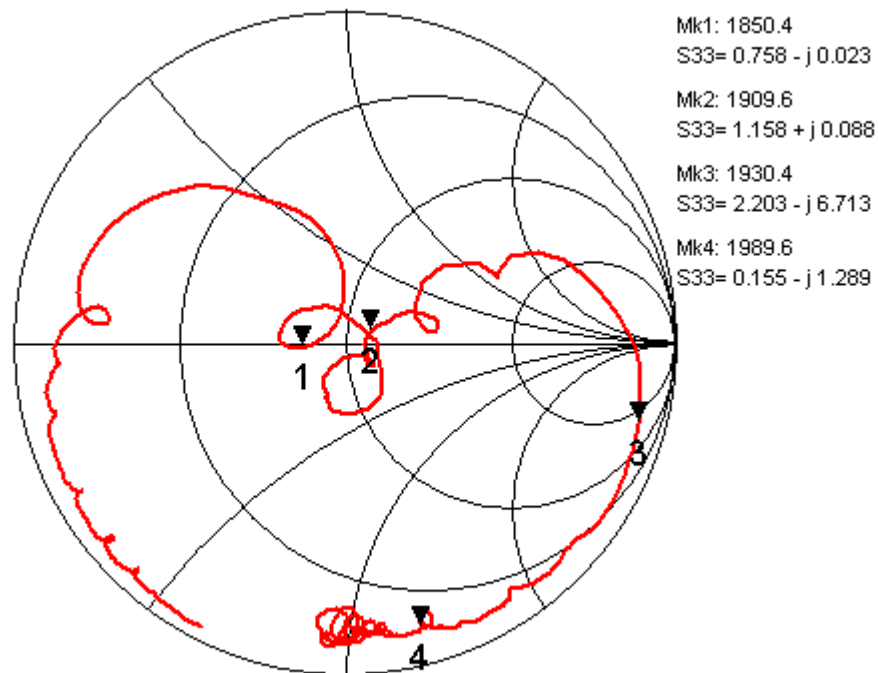
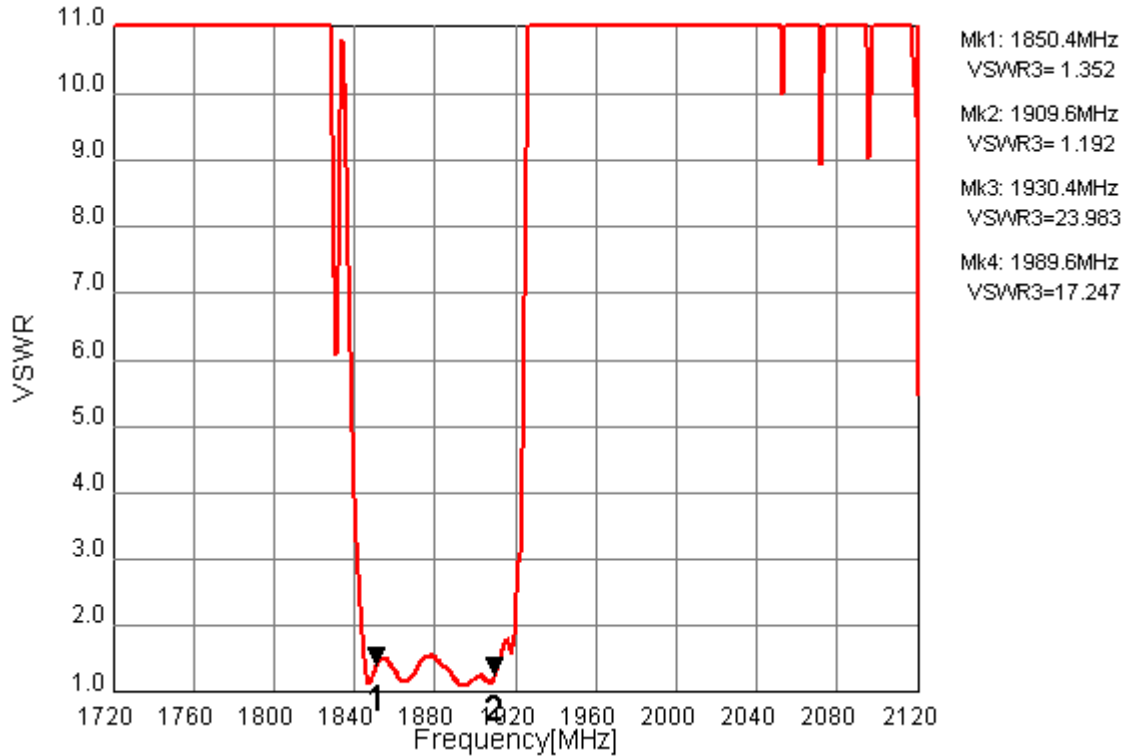


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### Tx Port



**Figure 3-3. Electrical Characteristics**

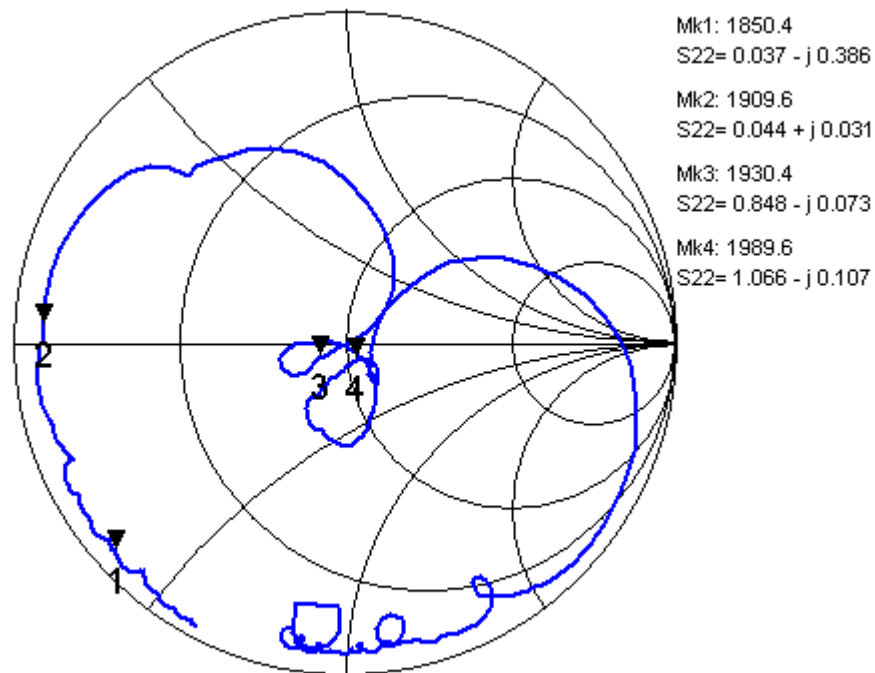
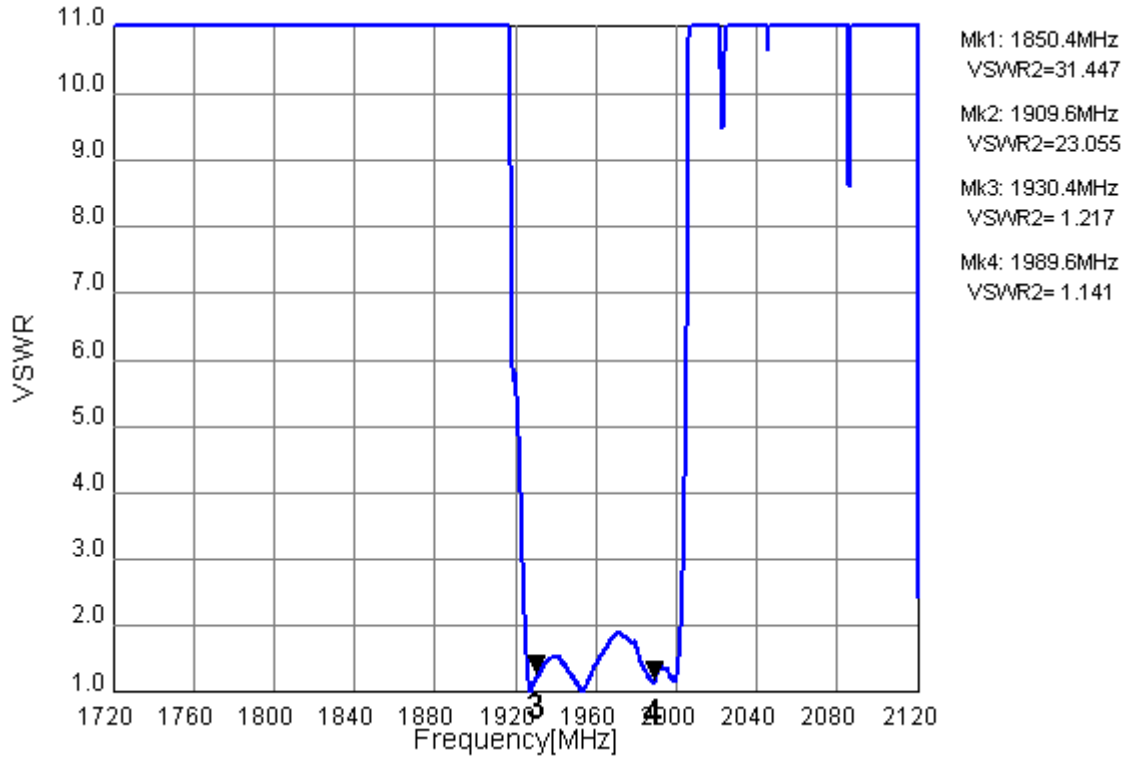


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## RxPort



**Figure 3-4. Electrical Characteristics**



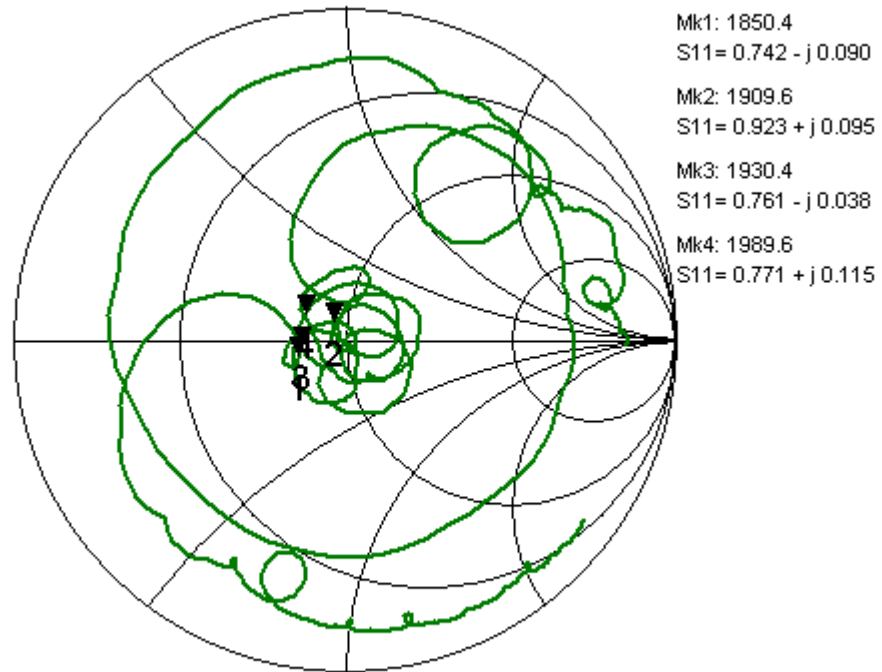
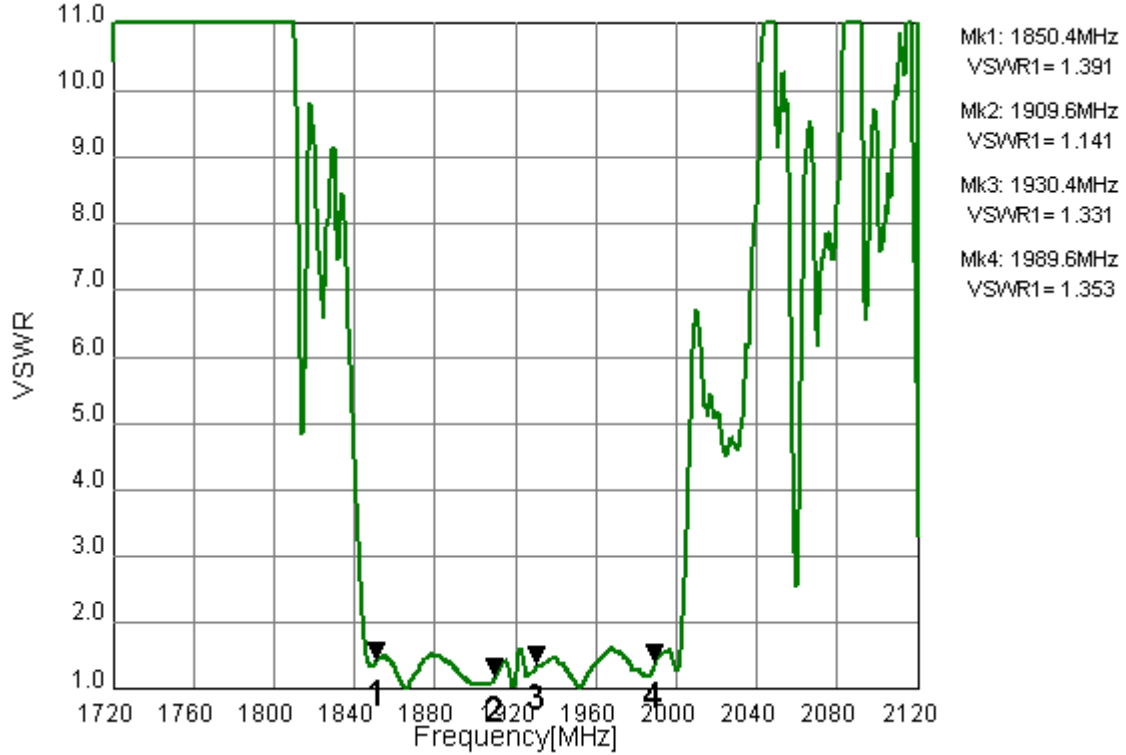
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## Ant Port



**Figure 3-5. Electrical Characteristics**



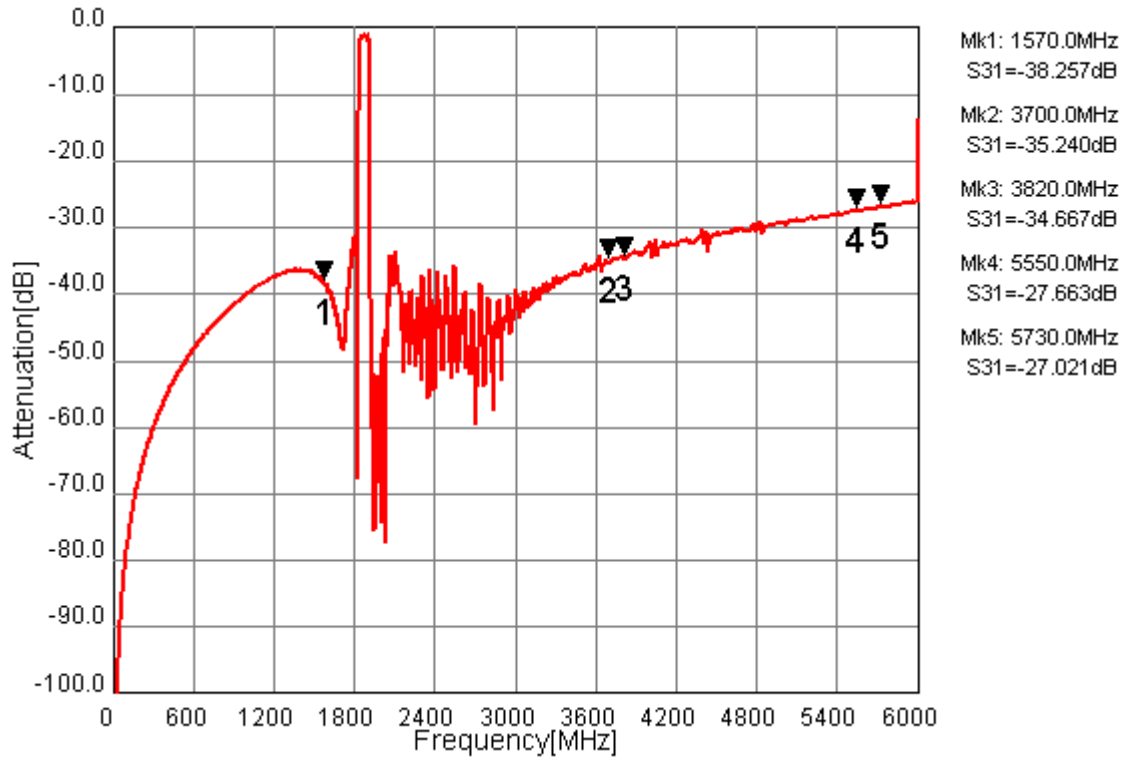


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### Tx to Ant (Wide Span)



### Ant to Rx (Wide Span)

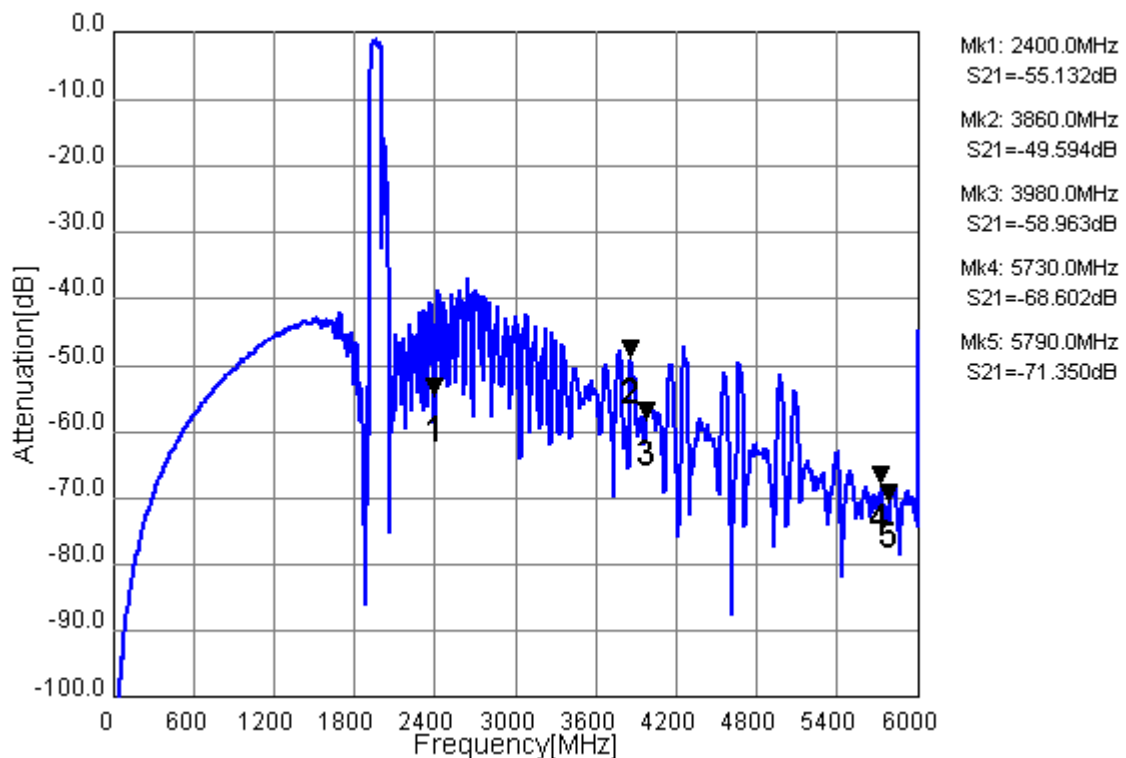


Figure 3-6. Electrical Characteristics

**TAIYO YUDEN**



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## Ordering Code

Ordering Code	Packing	Reel size	Status
D6DA1G960K2B1-Z	Tape & Reel	3,000 pcs.	MP
D6DA1G960K2B1-ZA	Tape & Reel	less than 3,000 pcs.	MP
D6DA1G960K2B1-Y	Tape & Reel	15,000 pcs.	MP
D6DA1G960K2B1-YA	Tape & Reel	less than 15,000 pcs.	MP
D6DA1G960K2B1-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.

This product is for general electronics equipment such as Audio-Visual equipment, household electronics, office supplies, information services and telecommunications; therefore, in case this product is used for any medical equipment, space equipment, nuclear equipment or disaster prevention equipment, please contact TAIYO YUDEN in advance.

In case this product is used for general electronics equipment or circuits which require high safety and high reliability, thoroughly evaluate on safety and add a protection circuit if necessary.