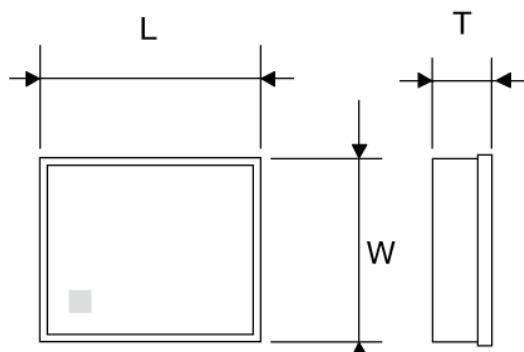


SAW Duplexer

D6PE1G960P3BP



■ Features

- Item Summary
W-CDMA / CDMA, 806
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 3000 , 15000pcs

■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B2
Band(3GPP2)	BC1
Use	WCDMA / CDMA
Transmitting / Receiving	Duplexer
Insertion Loss	2.3/3.0dB
Attenuation	56/52dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

■ External Dimensions

L	2mm +0.1:-0.1
W	1.6mm +0.1:-0.1
T	0.57mm max

2015.06.03

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
 TAIYO YUDEN reserves the right to make change to the Date at any time without notice.
 Before making final selection, please check product specification.



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Table 1. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks	
			Min.	Typ.	Max.			
Tx to ANT	Insertion loss	1850.48~1909.52	-	2.3	3.0	dB (*1)	-20 to +85 °C	
		1850.6~1909.4	-	2.3	3.0			
	Ripple	1850.48~1909.52	-	1.0	2.0	dB		
	VSWR	ANT	1850.48~1909.52	-	1.7	2.0	-	
				Tx	-	1.8	2.1	-
	Absolute attenuation		1570~1580	42	46	-	dB	
			1930.48~1989.52	44	51	-	dB	-20 to +85 °C
			1930.6~1989.4	40	51	-	dB	
			3700~3820	21	27	-	dB	
			5550~5730	15	19	-	dB	
		1850.48~1909.52	+29dBm, Ta=+50°C 50kh,CW			dBm		
ANT to Rx	Insertion loss	1930.48~1989.52	-	3.0	3.5	dB (*1)	-20 to +85 °C	
		1930.6~1989.4	-	3.0	3.5			
	Ripple	1930.48~1989.52	-	1.4	2.2	dB		
	Phase balance	1930.48~1989.52	-13	-7/+4	+13	deg		
	Amplitude balance	1930.48~1989.52	-1.5	-0.6/+0.2	+1.5	dB		
	VSWR	ANT	1930.48~1989.52	-	1.6	2.0	-	
				Rx	-	1.9	2.2	-
Absolute attenuation		1850.48~1909.52	45	53	-	dB	-20 to +85 °C	
		1850.6~1909.4	45	53	-	dB		
Tx to Rx	Isolation	1850.48~1909.52	52	56	-	dB	-20 to +85 °C	
		1850.6~1909.4	52	56	-	dB		
		1930.48~1989.52	48	52	-	dB	-20 to +85 °C	
		1930.6~1989.4	46	52	-	dB		
Triple beat		1931.25~1988.75	-	-80	-	dBc	+22dBm@Tx port -27dBm@Ant port	
Terminating Impedance		Tx port	50			Ohm	Single-ended	
		Rx port	100 // 22nH			Ohm	Balanced	
		Ant port	50 // 3.9nH			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.)

TAIYO YUDEN

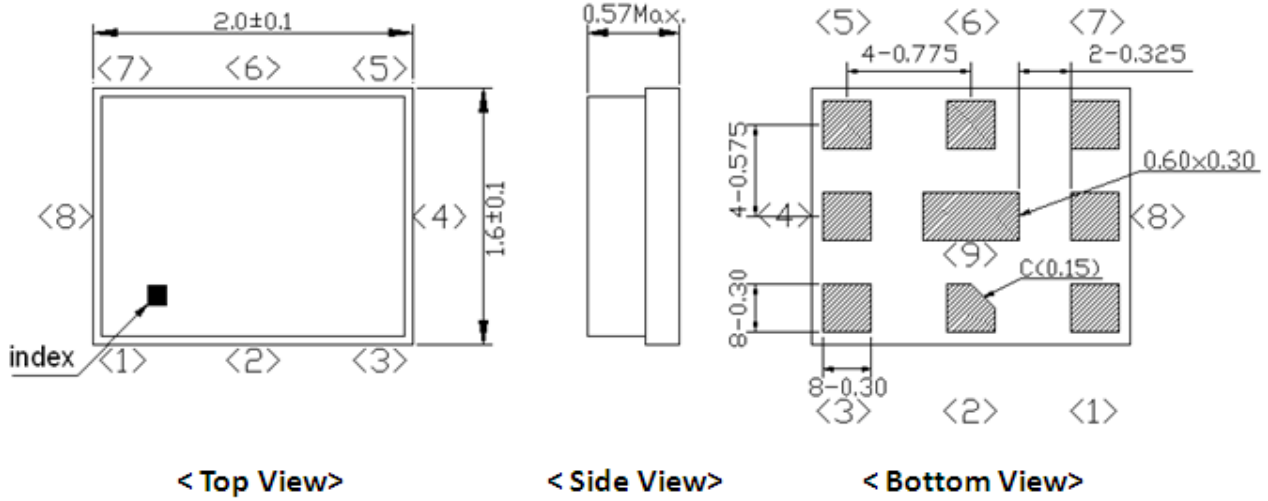


MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Dimensions



Unit: mm

Pin Configuration

Pin No.	Pin name	Description
1	Rx	Receiver Pin (balanced)
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	Rx	Receiver Pin (balanced)
9	GND	Ground Pin

Figure 1. Dimensions and Pin assignment

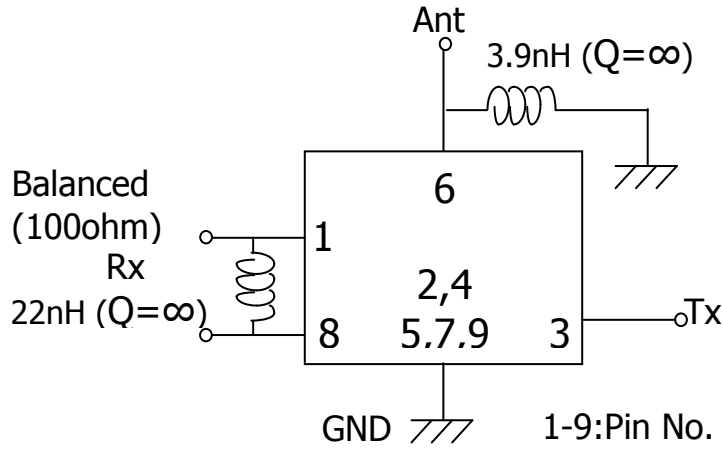


MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
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Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Evaluation Circuit



Recommended foot print pattern

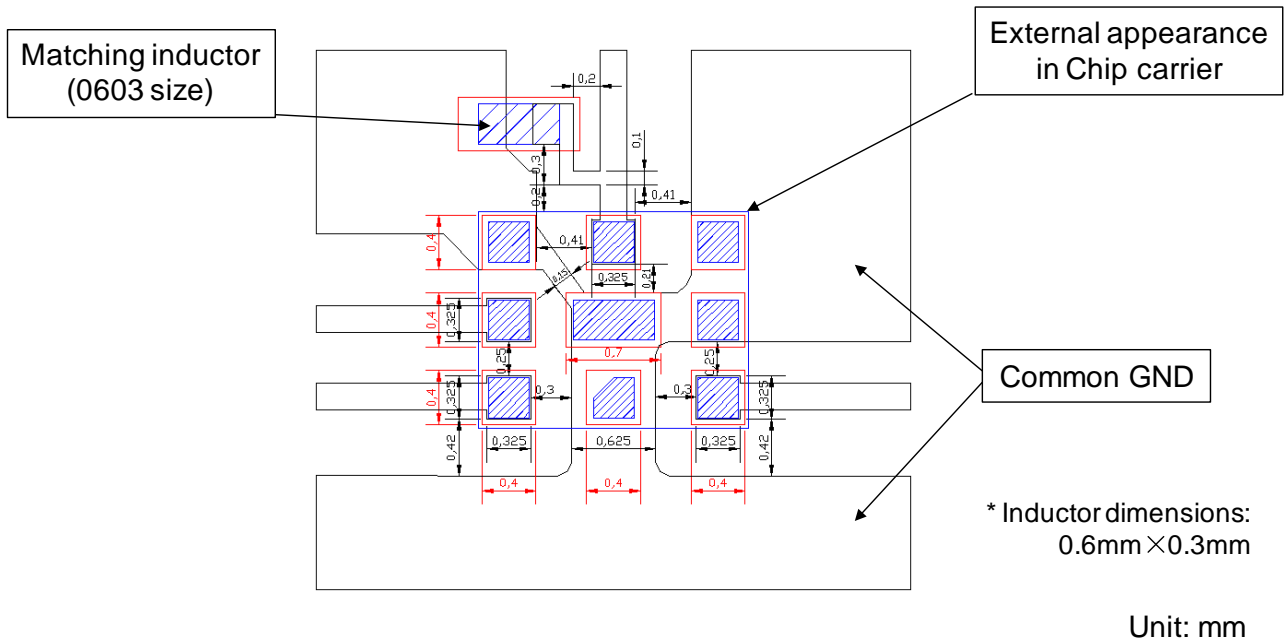


Figure 2. Recommended foot print pattern

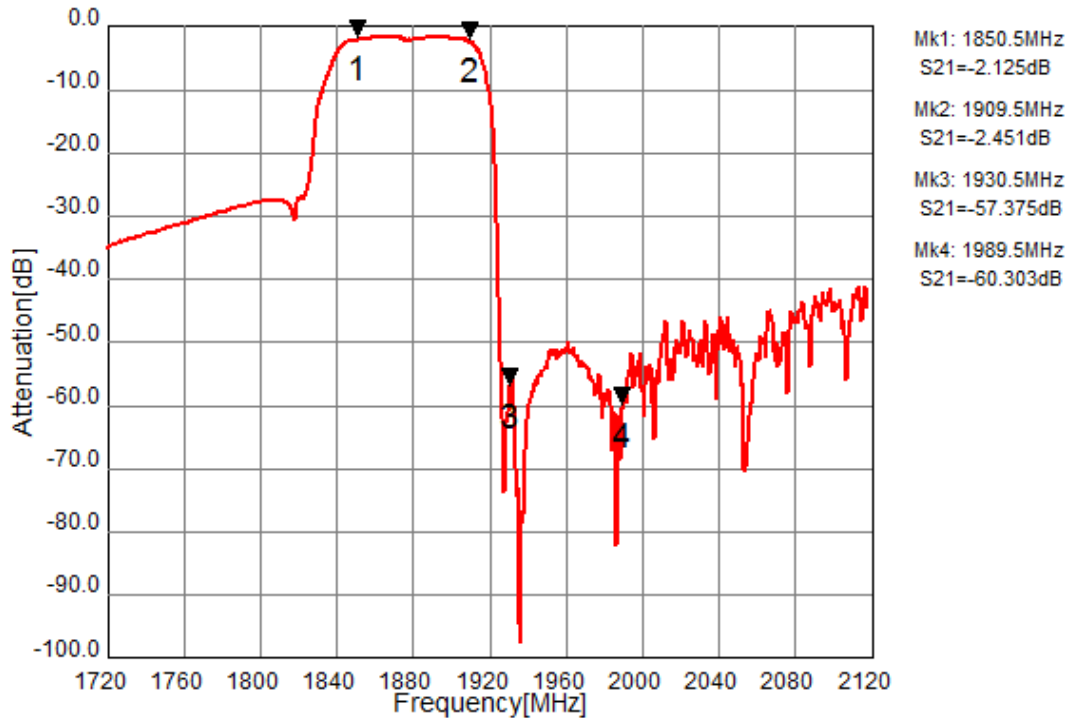


MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Tx to Ant



Ant to Rx

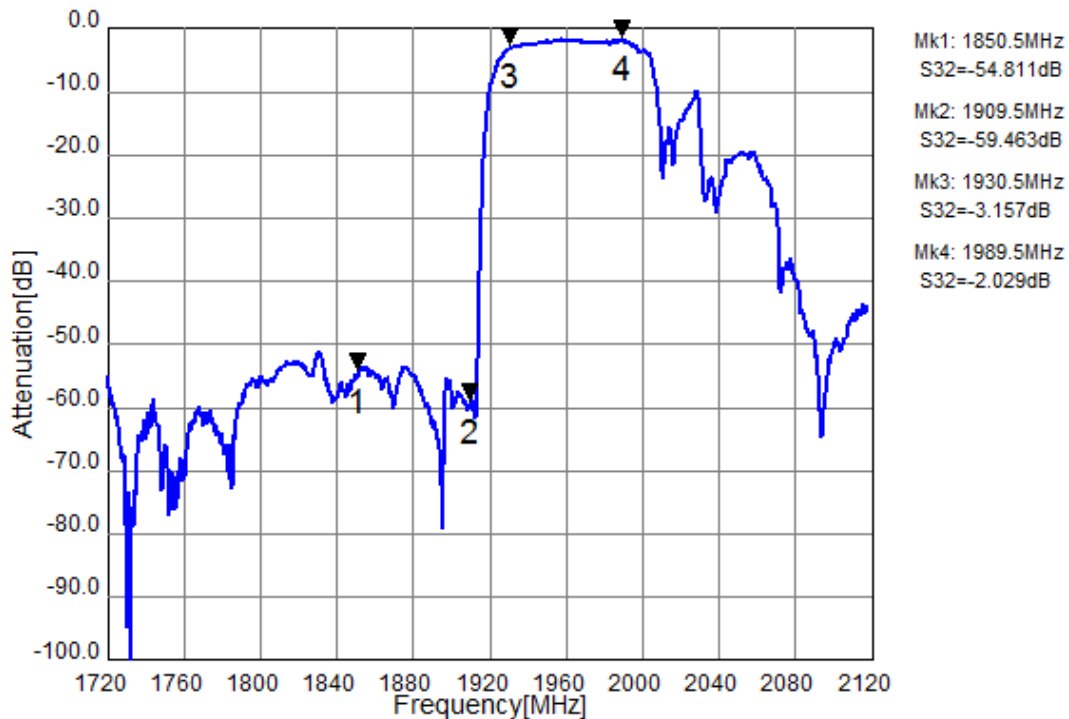


Figure 3-1. Electrical Characteristics

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

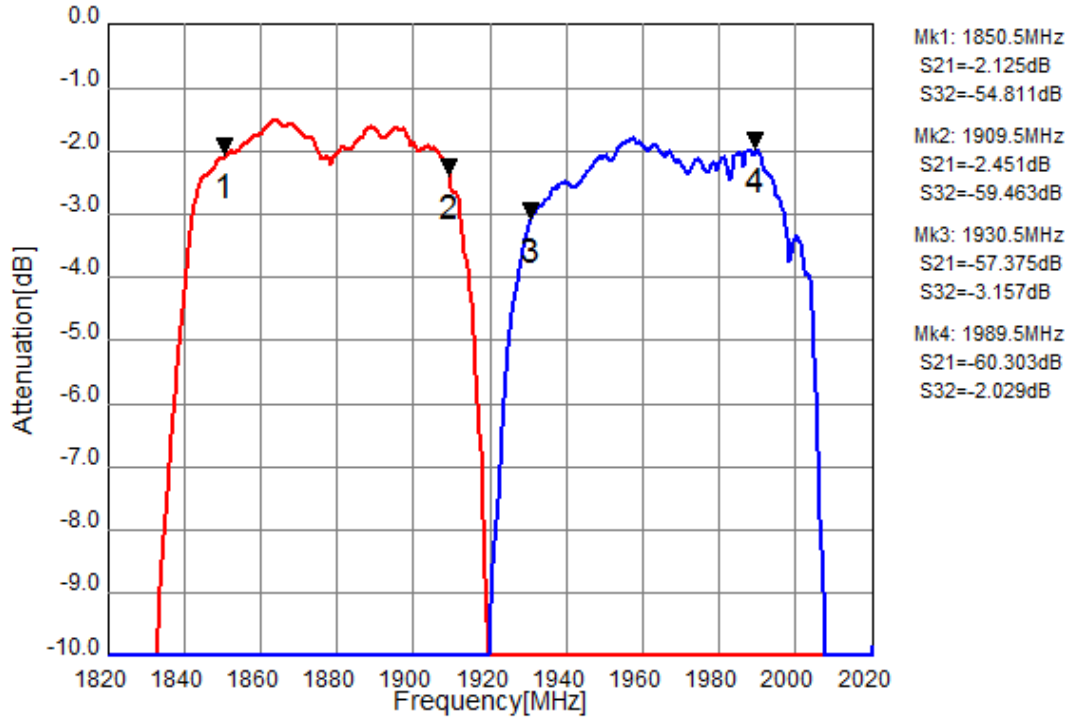


MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Tx to Ant, Ant to Rx



Tx to Rx Isolation

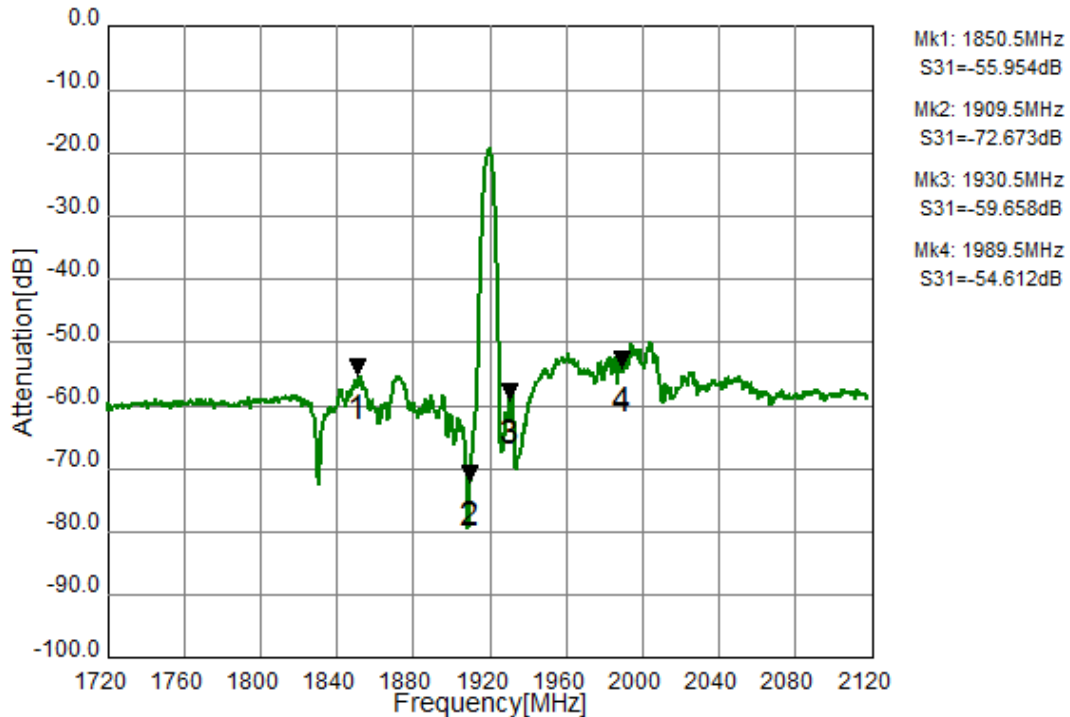


Figure 3-2. Electrical Characteristics

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



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Tx Port

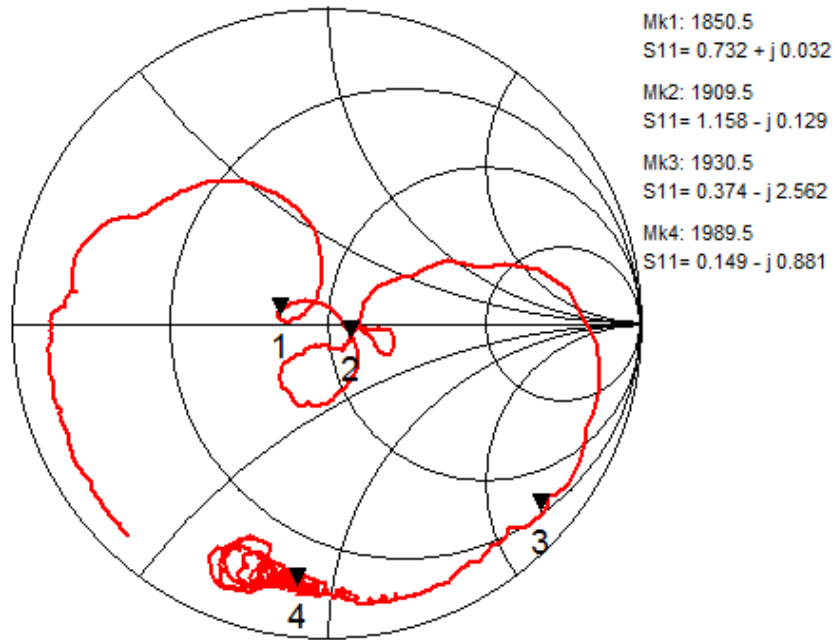
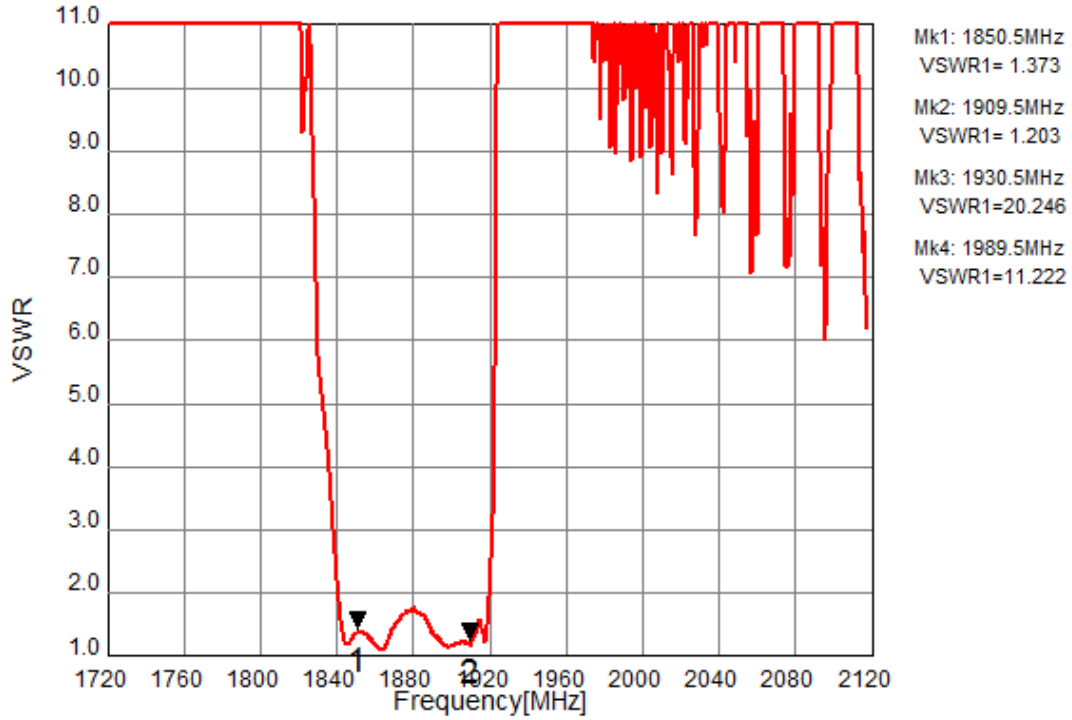


Figure 3-3. Electrical Characteristics



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Rx Port

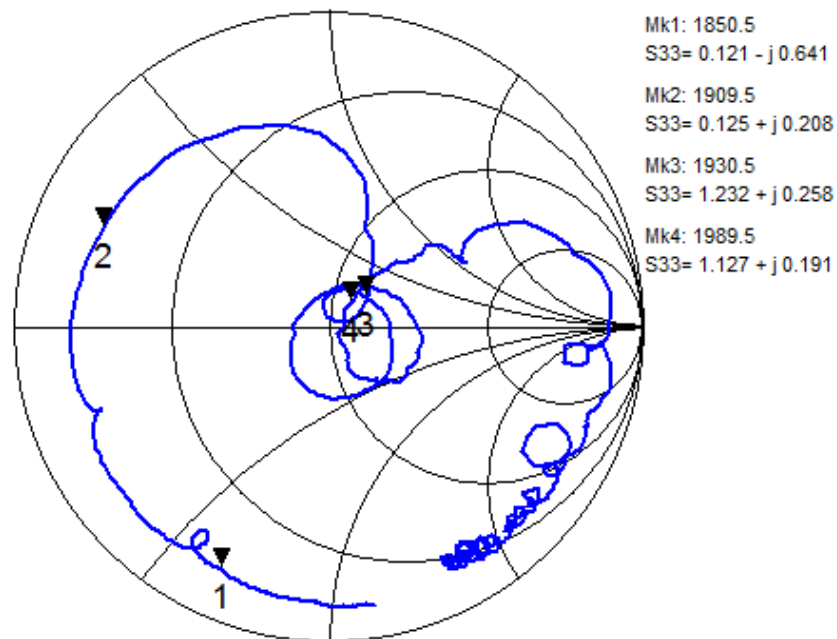
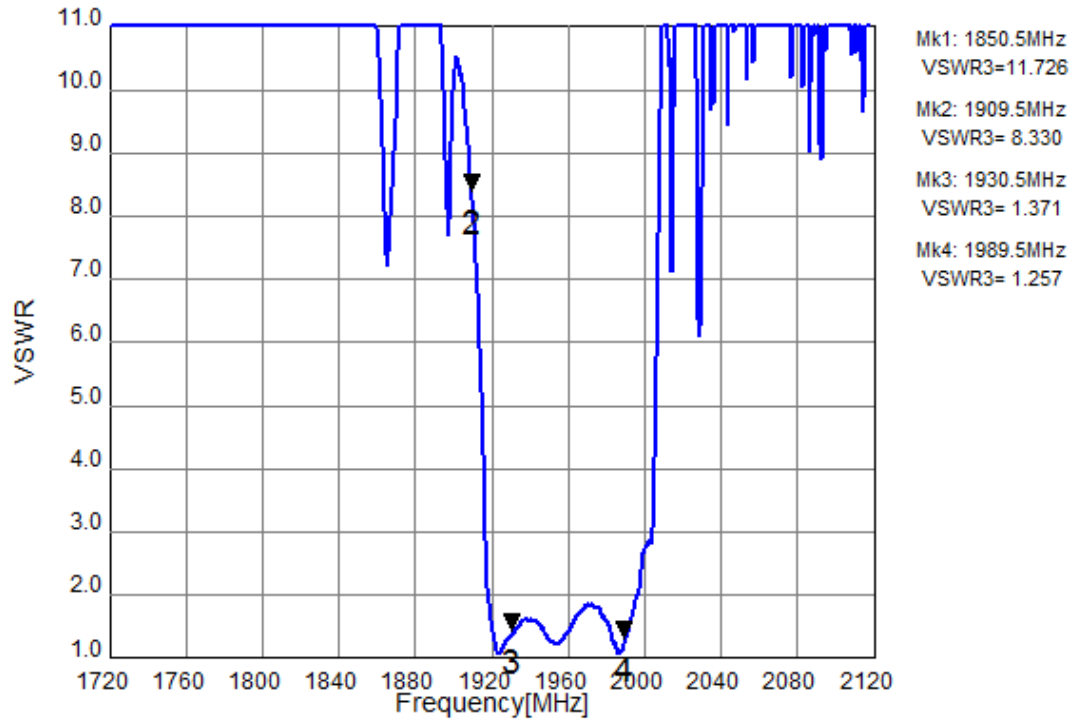


Figure 3-4. Electrical Characteristics



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Ant Port

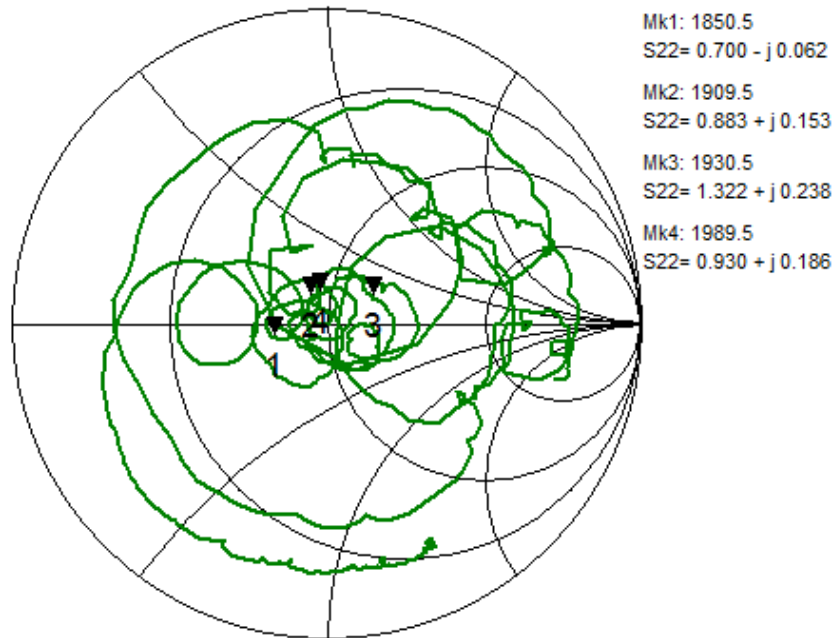
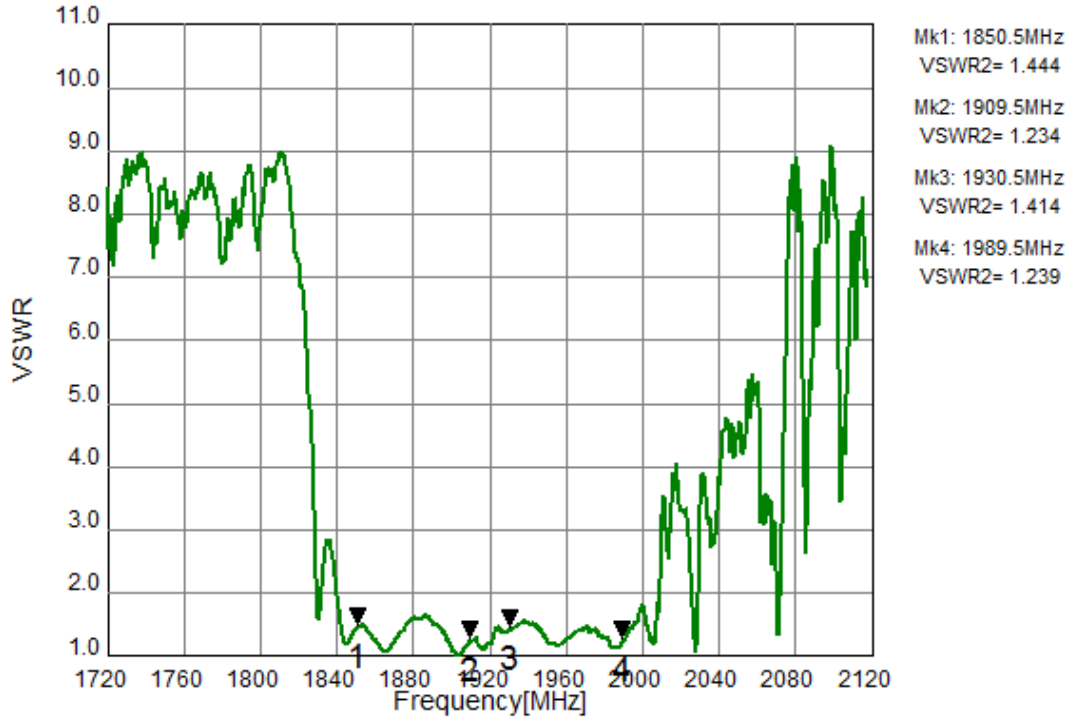


Figure 3-5. Electrical Characteristics

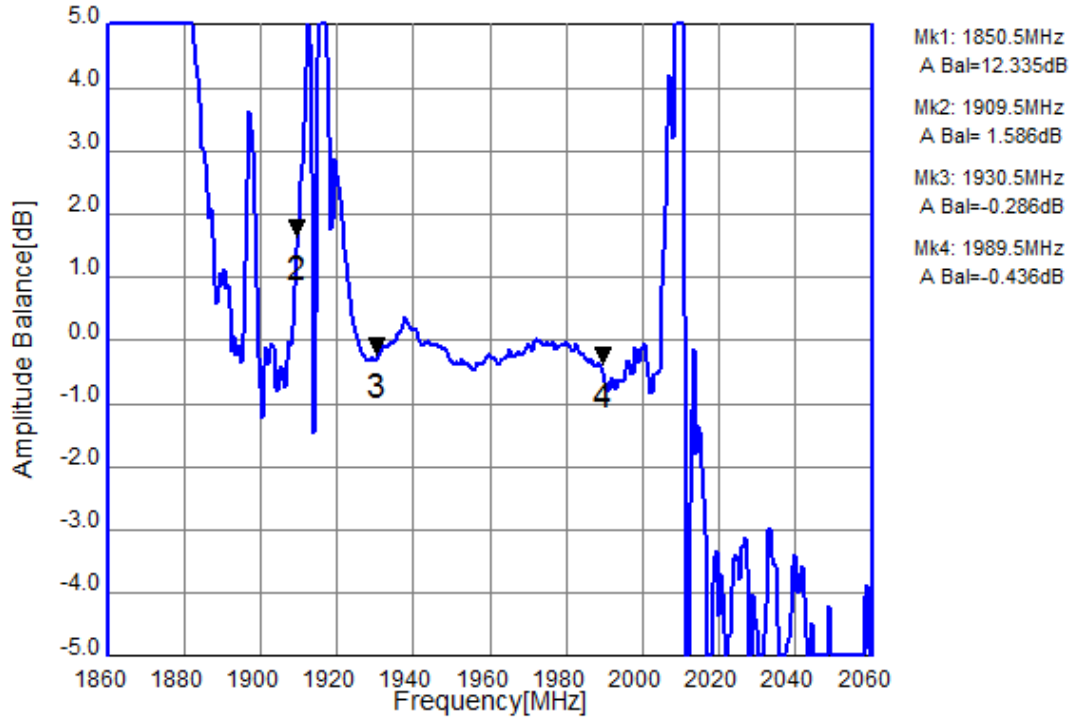


MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

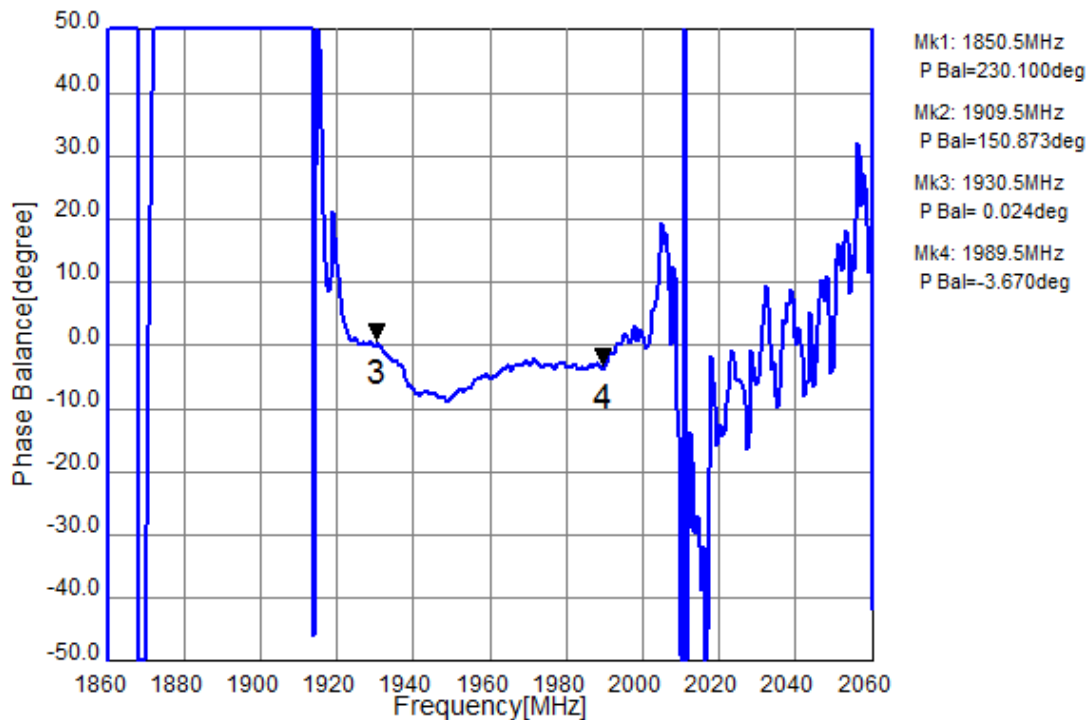


Figure 3-6. Electrical Characteristics

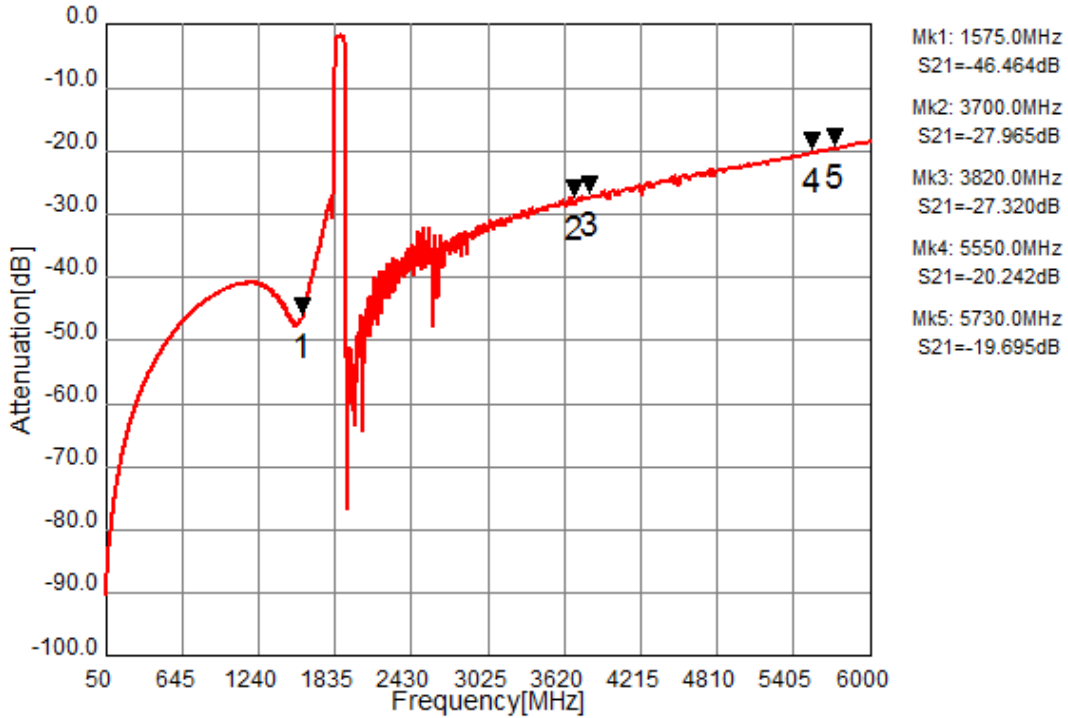


MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Tx to Ant (Wide span)



Ant to Rx (Wide span)

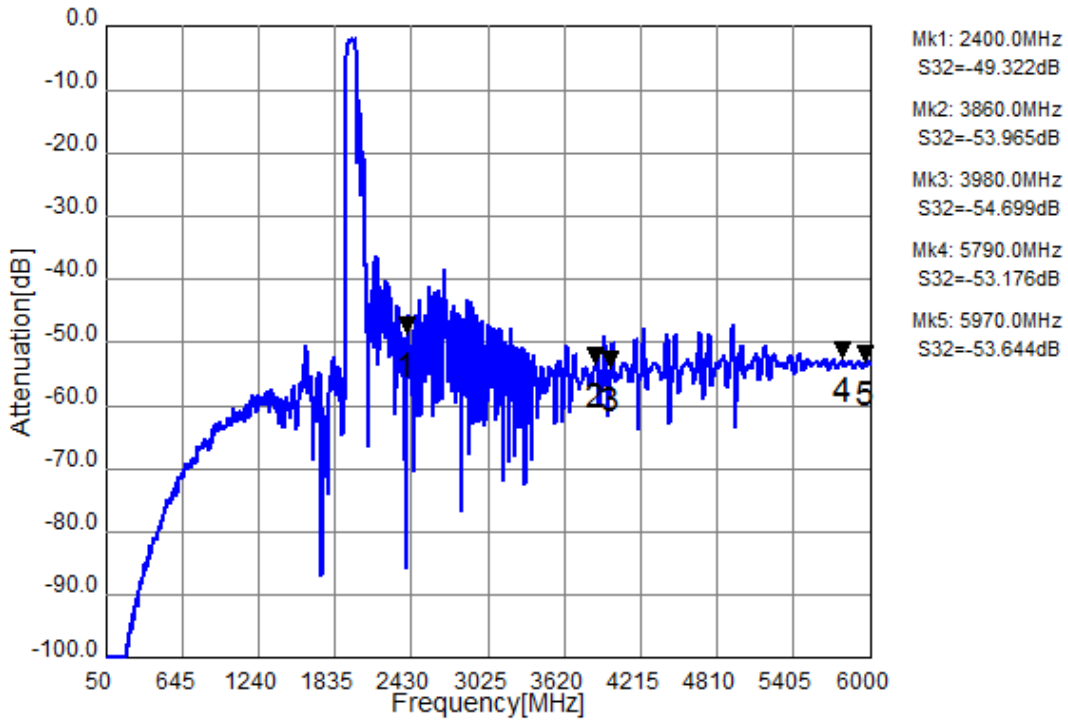


Figure 3-7. Electrical Characteristics



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	May 14, 2012
Part Number	D6PE1G960P3BP	Version 4.0cd	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
D6PE1G960P3BP-Z	Tape & Reel	3,000 pcs.	MP
D6PE1G960P3BP-ZA	Tape & Reel	less than 3,000 pcs.	MP
D6PE1G960P3BP-Y	Tape & Reel	15,000 pcs.	MP
D6PE1G960P3BP-YA	Tape & Reel	less than 15,000 pcs.	MP
D6PE1G960P3BP-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.