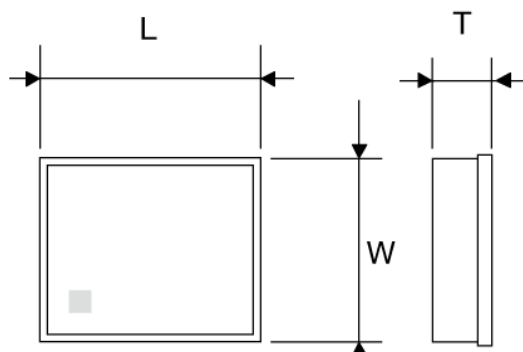


SAW Dual Filter

G6QL2G140M2PA



■ Features

- Item Summary
W-CDMA, 604
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 5000 , 15000pcs

■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B1 / B2
Use	WCDMA
Transmitting / Receiving	Rx Dual Filter
Insertion Loss	1.9/3.0dB
Attenuation	48/41dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

■ External Dimensions

L	1.5mm +0.1:-0.1
W	1.1mm +0.1:-0.1
T	0.5mm 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

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

Table 1. Electrical specifications (Filter 1)

Pass Band (2110-2170MHz)						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	2110-2170	-	1.9	2.5	dB	(*)
Ripple	2110-2170	-	0.7	1.5	dB	
Input VSWR	2110-2170	-	1.8	2.5	-	
Output VSWR	2110-2170	-	1.8	2.5	-	
Absolute attenuation	10-1920	30	38	-	dB	
	1920-1980	42	48	-	dB	
	2300-2500	30	35	-	dB	
	4220-4340	25	32	-	dB	
Input impedance (Unbalanced)		50			Ohm	
Output impedance (Unbalanced)		50			Ohm	
Operating temperature		-30 to +85			°C	

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



MSL1

*Pb Free part

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

Table 2. Electrical specifications (Filter 2)

Pass Band (1930-1990MHz)						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1932.4-1987.6	-	3.0	3.5	dB(*)	
Ripple	1932.4-1987.6	-	1.2	1.8	dB	
Input VSWR	1932.4-1987.6	-	2.1	2.4	-	
Output VSWR	1932.4-1987.6	-	2.1	2.4	-	
Absolute attenuation	10-1850	25	44	-	dB	
	1850-1907.6	36	41	-	dB	
	2070-2800	28	38	-	dB	
Input impedance (Unbalanced)		50			Ohm	
Output impedance (Unbalanced)		50			Ohm	
Operating temperature		-30 to +85			°C	

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



MSL1

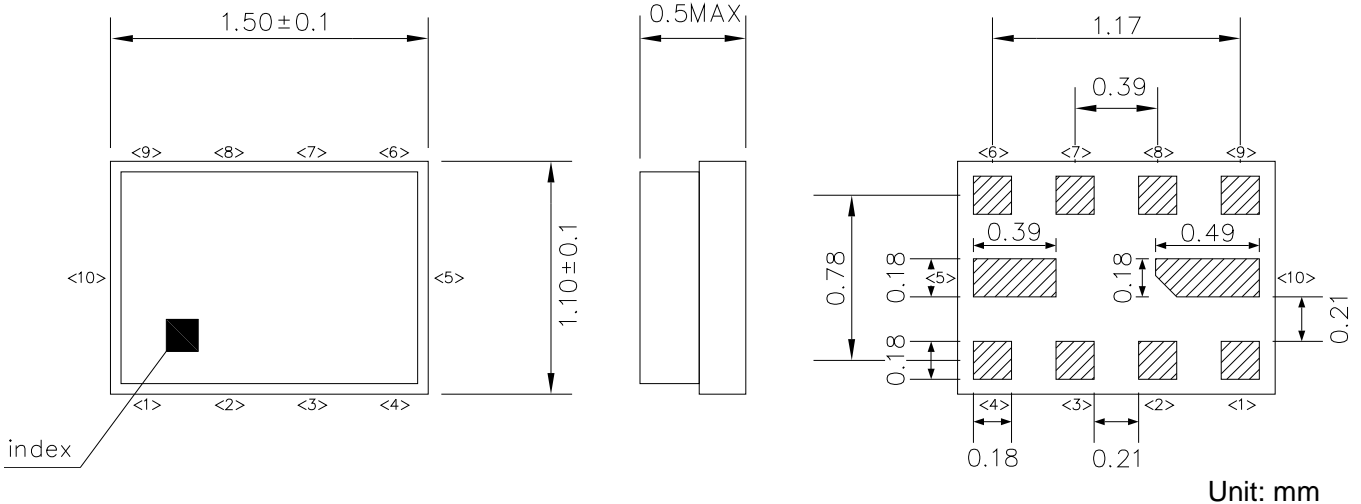
*Pb Free part

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

Dimensions

Device size: 1.50typ. x 1.1typ. x 0.5max.



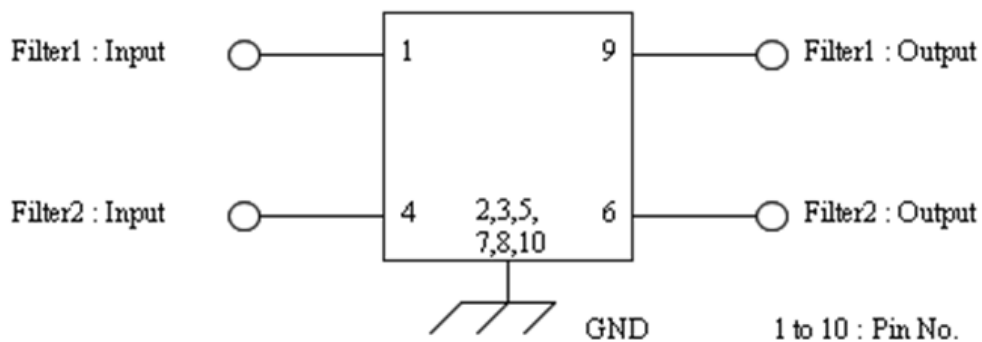
Unit: mm

Pin Configuration

Pin No.	Pin name	Description
1	IN	Filter1 input pin
2	GND	Ground
3	GND	Ground
4	IN	Filter2 input pin
5	GND	Ground
6	OUT	Filter2 output pin
7	GND	Ground
8	GND	Ground
9	OUT	Filter1 output pin
10	GND	Ground

Filter No.	Passband (MHz)	System
1	2110 ~ 2170	W-CDMA I (2G)-Rx
2	1932.4 ~ 1987.6	W-CDMA II (1.9G)-Rx

Evaluation Circuit





MSL1

*Pb Free part

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

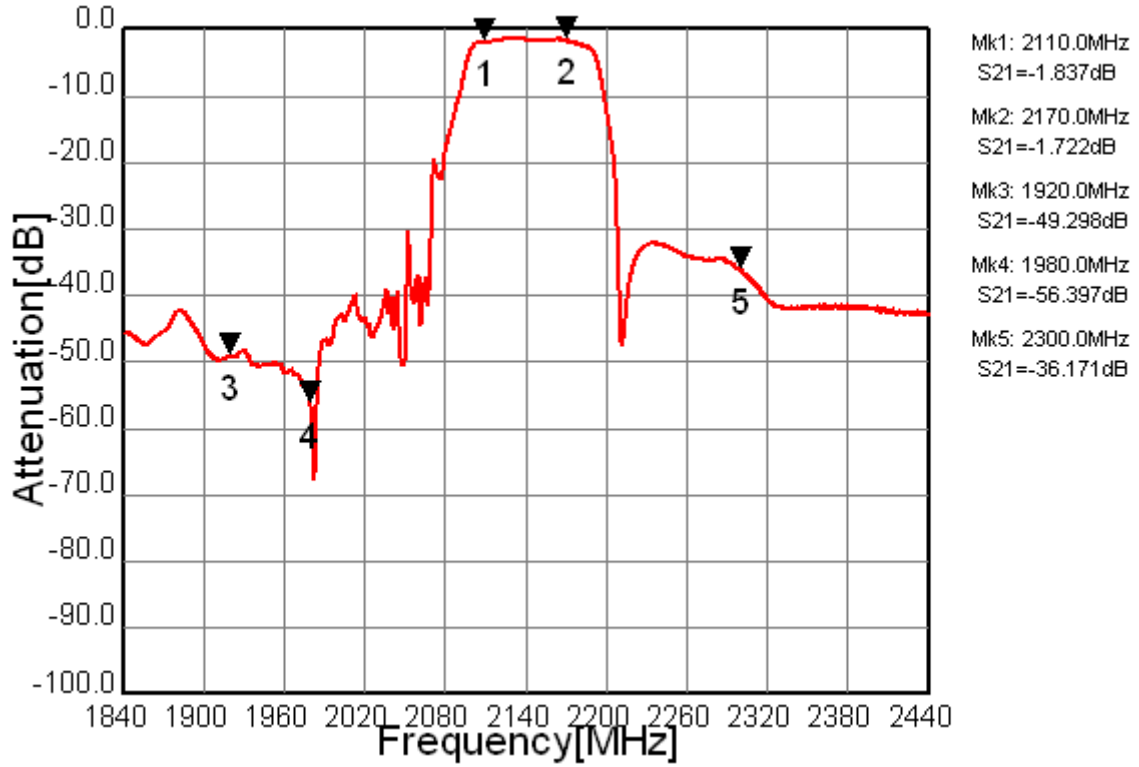


Fig.1 Pass-band Characteristic (Filter1)

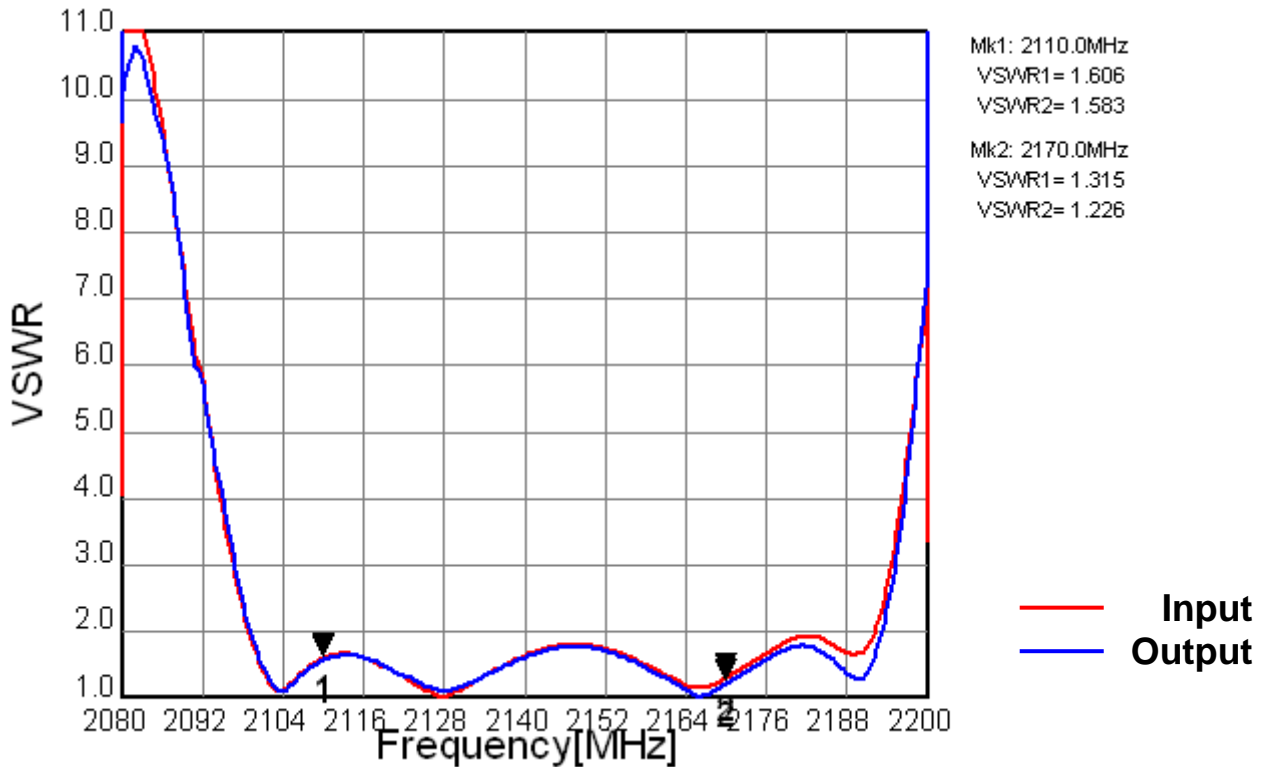


Fig.2 VSWR (Filter1)



MSL1

*Pb Free part

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

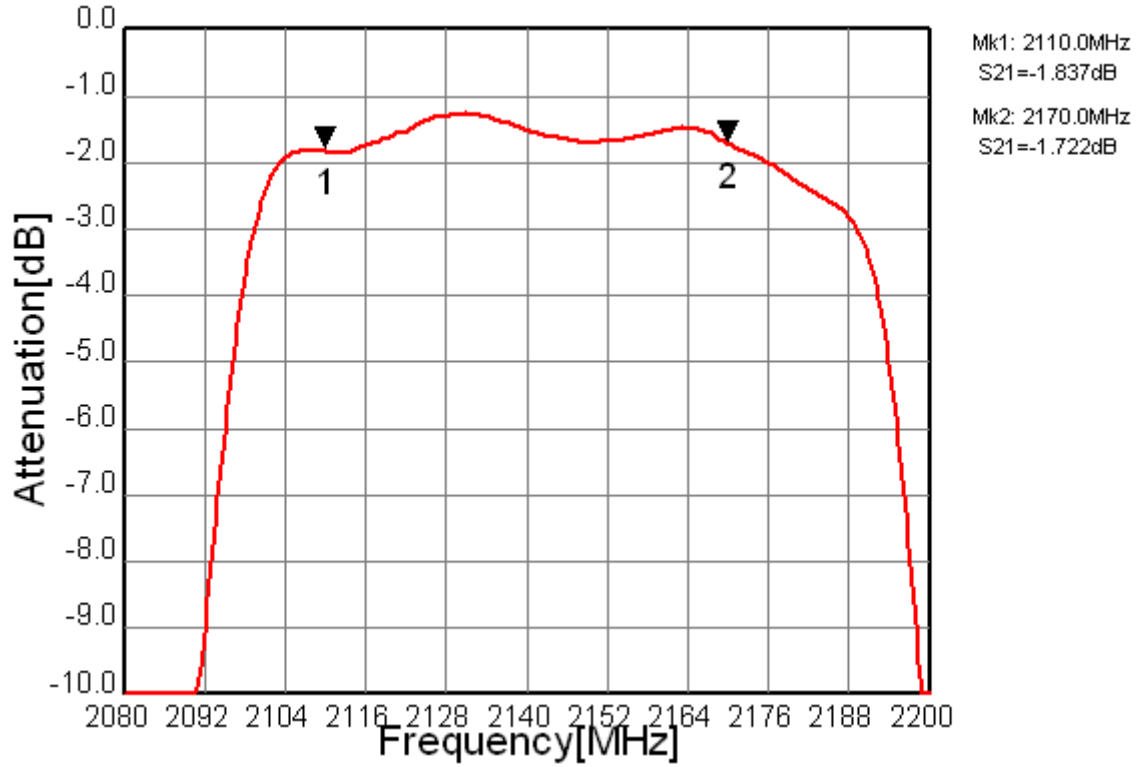


Fig.3 In-band Characteristic (Filter1)

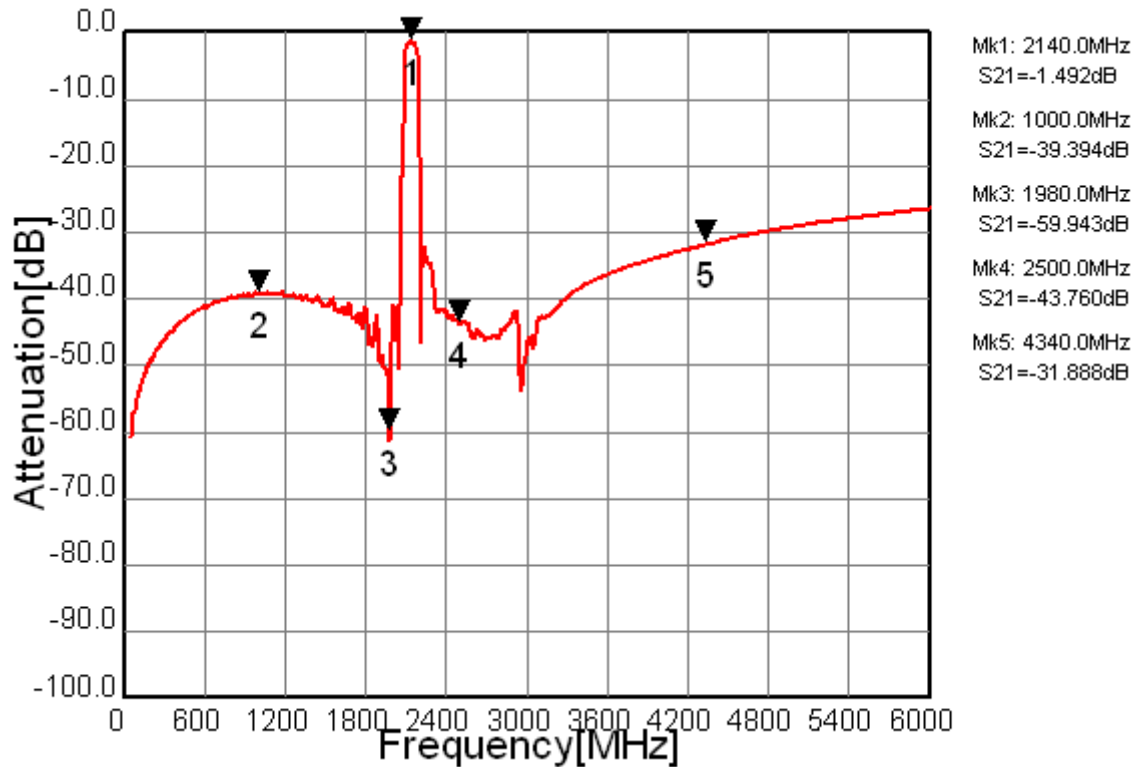


Fig.4 Wide-band Characteristic (Filter1)



MSL1

*Pb Free part

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

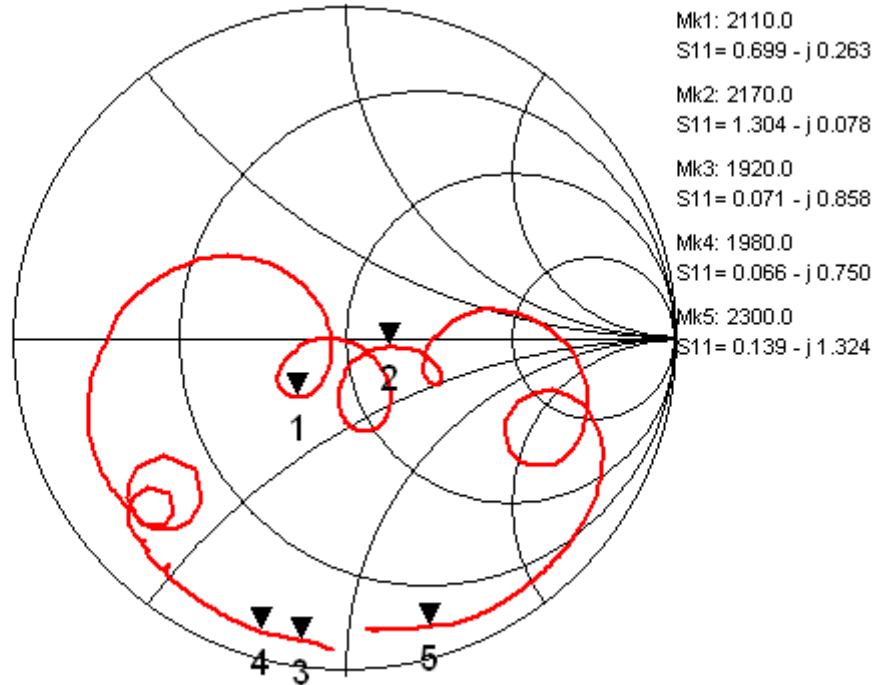


Fig.5 Impedance (S11) (Filter1)

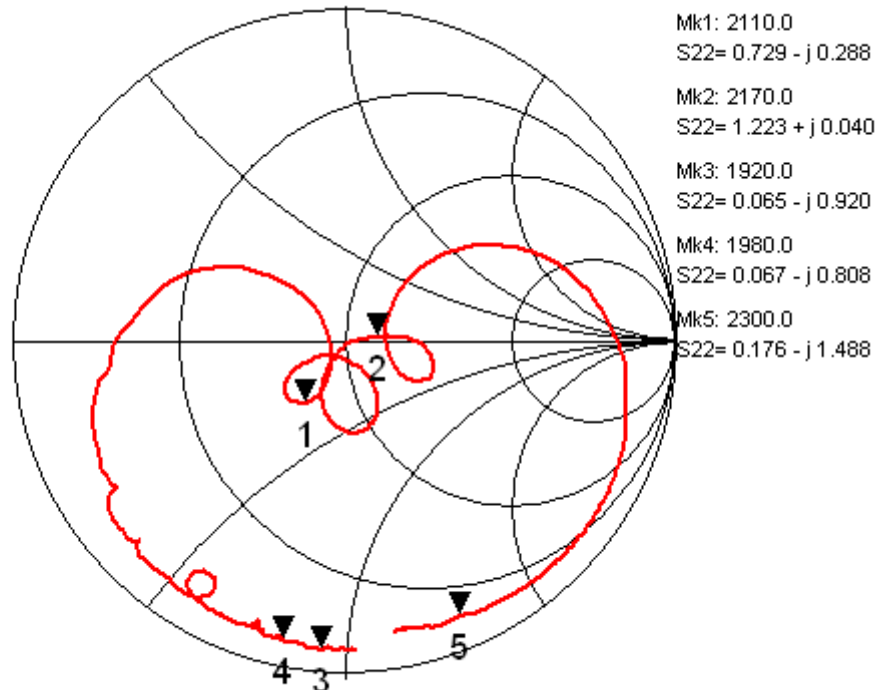


Fig.6 Impedance (S22) (Filter1)



MSL1

*Pb Free part

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

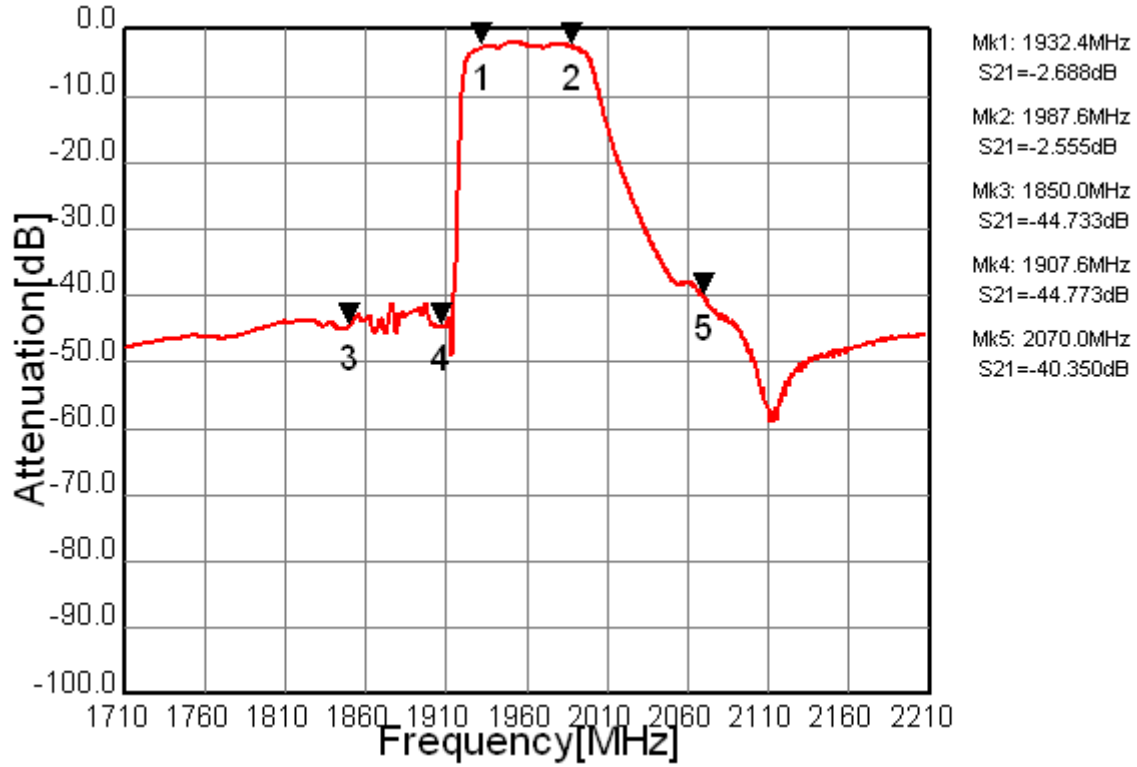


Fig.7 Pass-band Characteristic (Filter2)

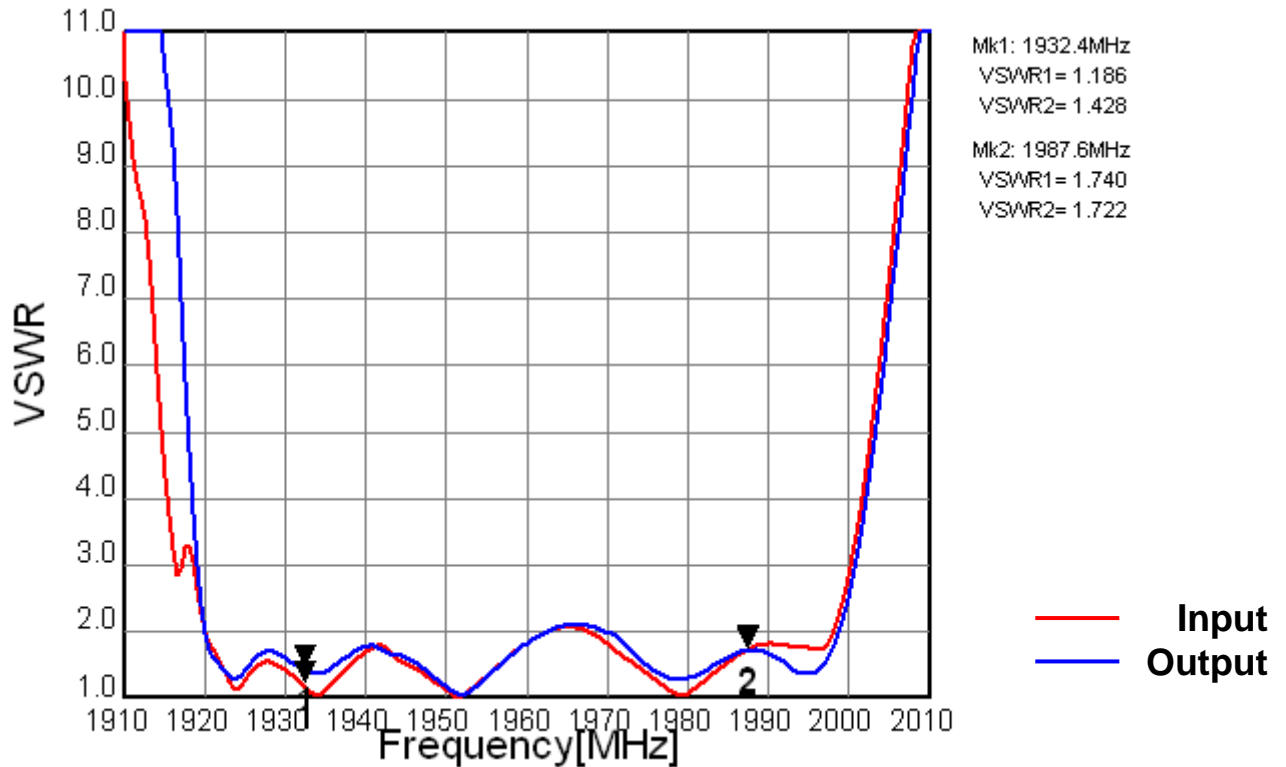


Fig.8 VSWR (Filter2)



MSL1

*Pb Free part

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

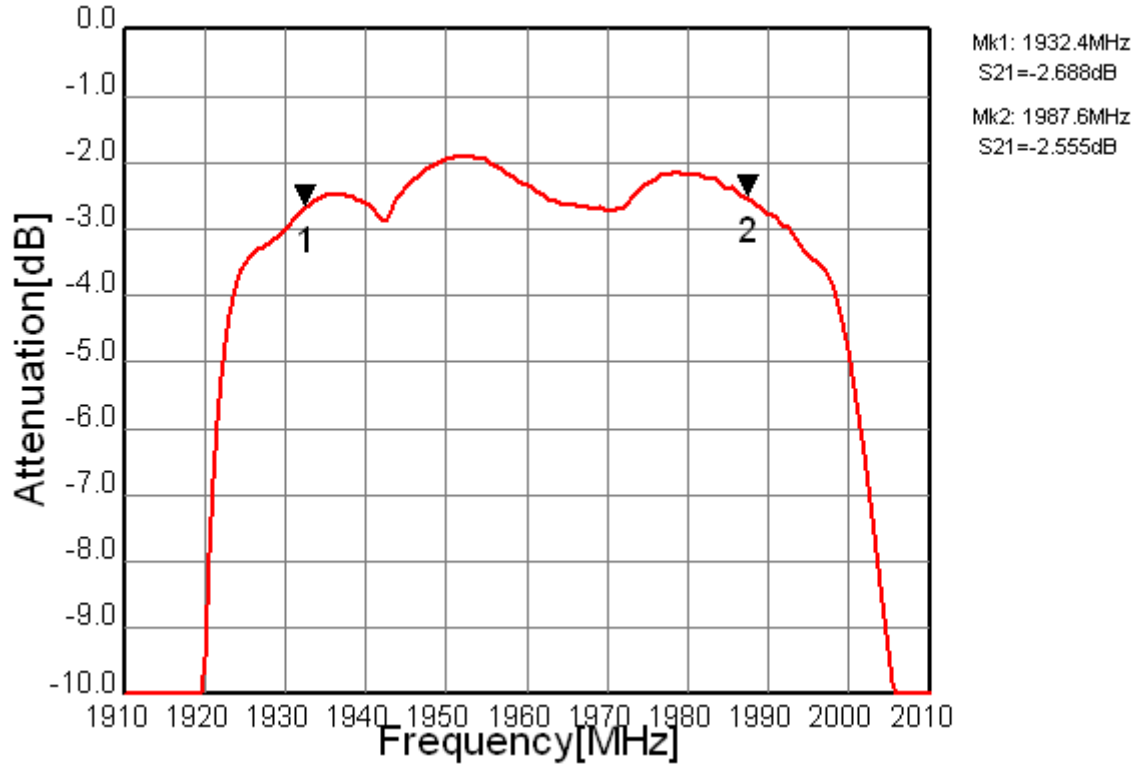


Fig.9 In-band Characteristic (Filter2)

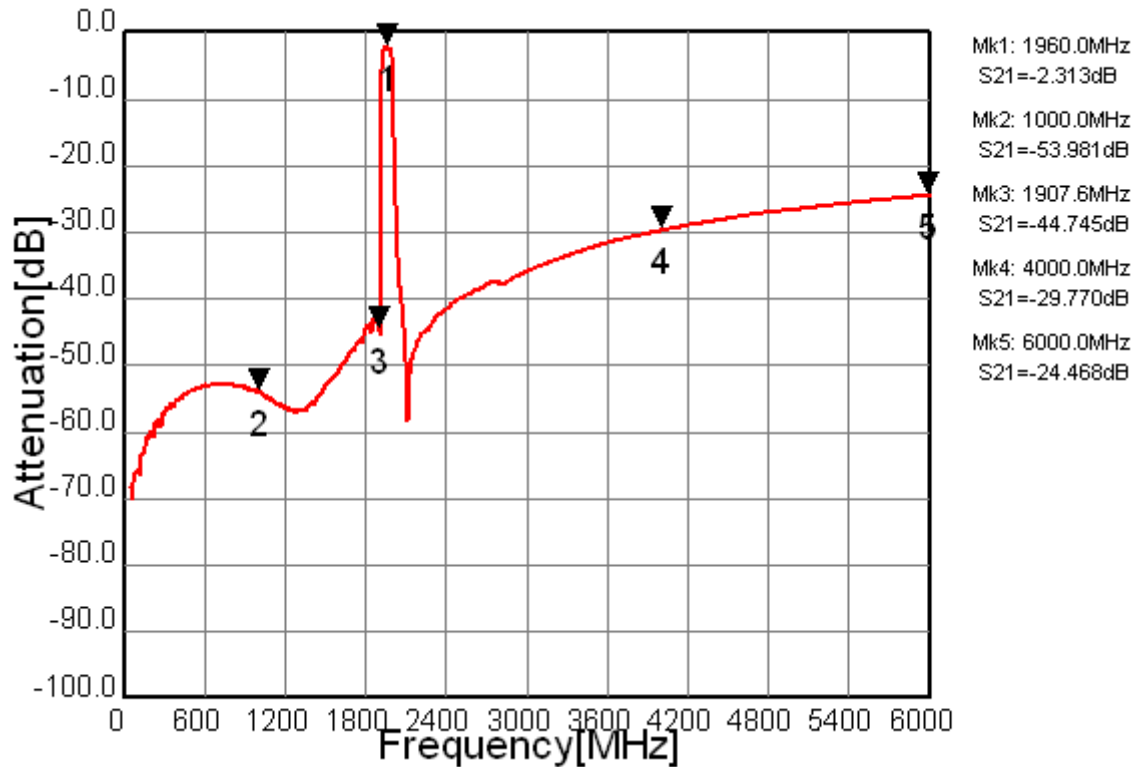


Fig.10 Wide-band Characteristic (Filter2)



MSL1

*Pb Free part

Confidential

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band I / Band II Rx	DATE	Aug. 5, 2011
Part Number	G6QL2G140M2PA	Version 5.1ed	Final

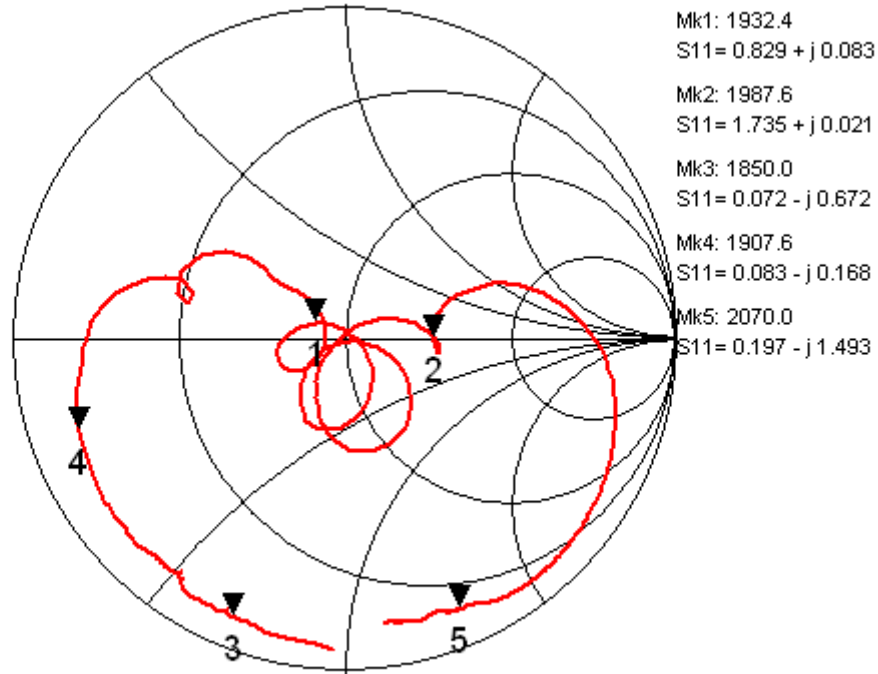


Fig.11 Impedance (S11) (Filter2)

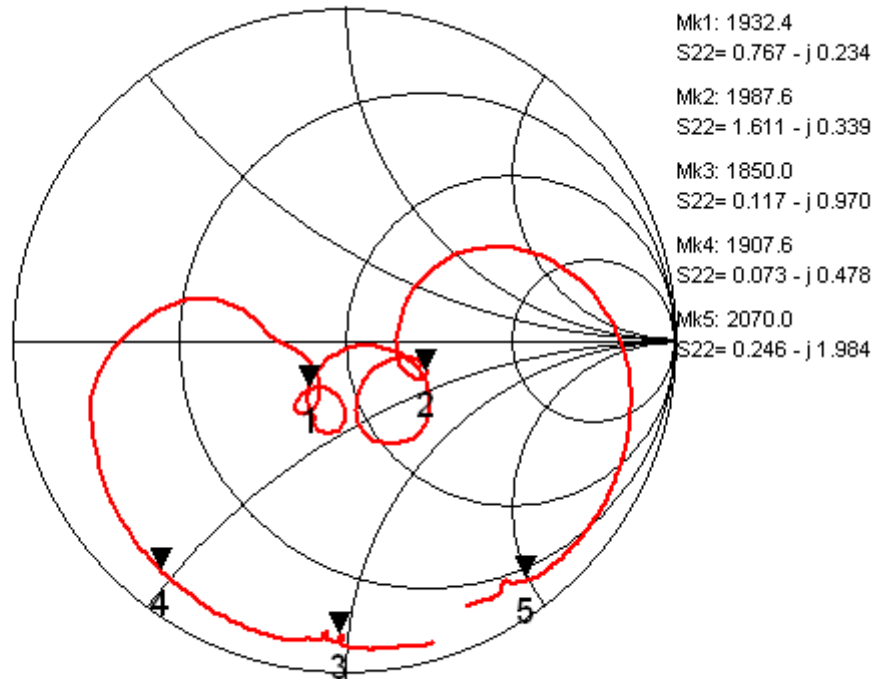


Fig.12 Impedance (S22) (Filter2)