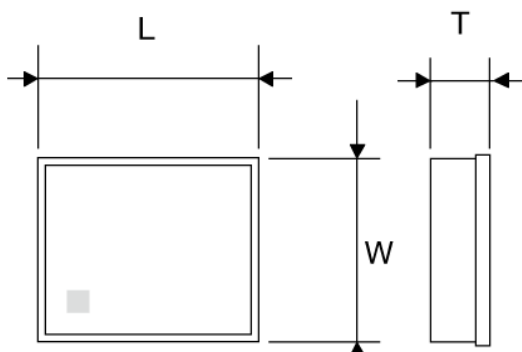


SAW Filter

F6QG2G140P2KA



■ Features

- Item Summary
W-CDMA / LTE / CDMA , Rx, 403
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 5000 , 15000pcs

■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B1 / B4
Band(3GPP2)	BC6
Use	WCDMA / CDMA / LTE
Transmitting / Receiving	Rx Filter
Insertion Loss	1.7dB
Attenuation	55dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

■ External Dimensions

L	1.1mm +0.1:-0.1
W	0.9mm +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

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I & IV Rx	DATE	Nov. 17, 2011
Part Number	F6QG2G140P2KA	Version 1.1a	Final

Table 1 Electrical Specification

Passband: 2110 - 2170MHz						
Parameter	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	2110 - 2170	-	1.7	2.2	dB(*)	
	2110 - 2155					
Amplitude ripple	2110 - 2170	-	0.6	1.5	dB	
	2110 - 2155					
Input VSWR	2110 - 2170	-	1.9	2.2	-	
	2110 - 2155					
Output VSWR	2110 - 2170	-	1.9	2.2	-	
	2110 - 2155					
Attenuation	10 - 1920	40	48	-	dB	
	824 - 849	50	61	-	dB	
	1710 - 1755	45	54	-	dB	
	1920 - 1980	50	55	-	dB	
	2300 - 2500	25	35	-	dB	
	4220 - 4340	35	50	-	dB	
Amplitude balance (S21/S31)	2110 - 2170	-1.5	-0.3~ +0.8	+1.5	dB	
	2110 - 2155					
Phase balance ((Φ S21- Φ S31)+180)	2110 - 2170	-10	-3~+6	+10	deg	
	2110 - 2155					
Operating temperature range		-30 ~ +85			°C	
Input Impedance (Unbalanced)		50			ohm	
Output Impedance (Balanced / differential)		100			ohm	
Device size		1.1typ. x 0.9typ. x 0.5max.			mm	

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



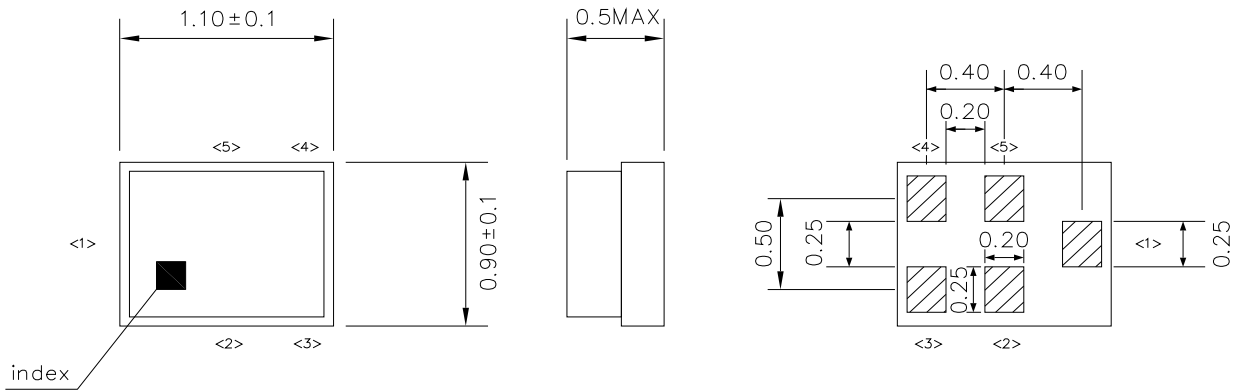
MSL1

*Pb Free part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I & IV Rx	DATE	Nov. 17, 2011
Part Number	F6QG2G140P2KA	Version 1.1a	Final

Dimensions

Device size: 1.1mmtyp. x 0.9mmtyp. x 0.5mmmax.

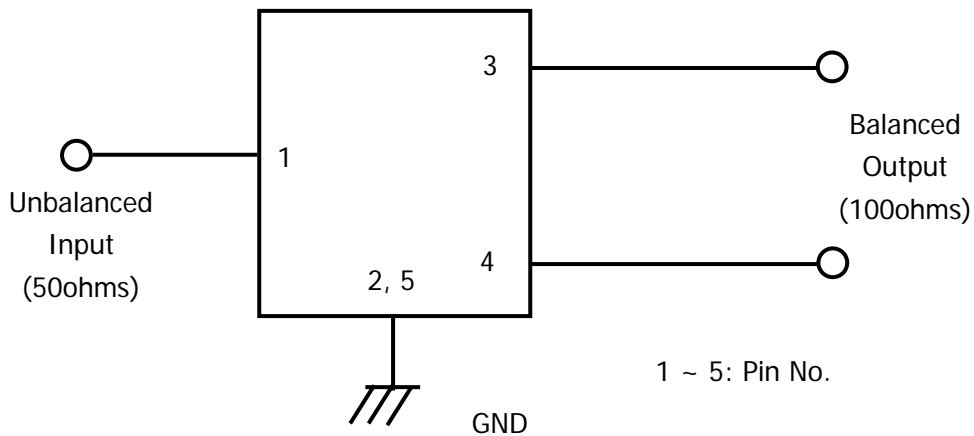


Unit: mm

Pin Configuration

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced pin
4	OUT	Balanced pin
5	GND	Ground

Evaluation Circuit





MSL1

*Pb Free part

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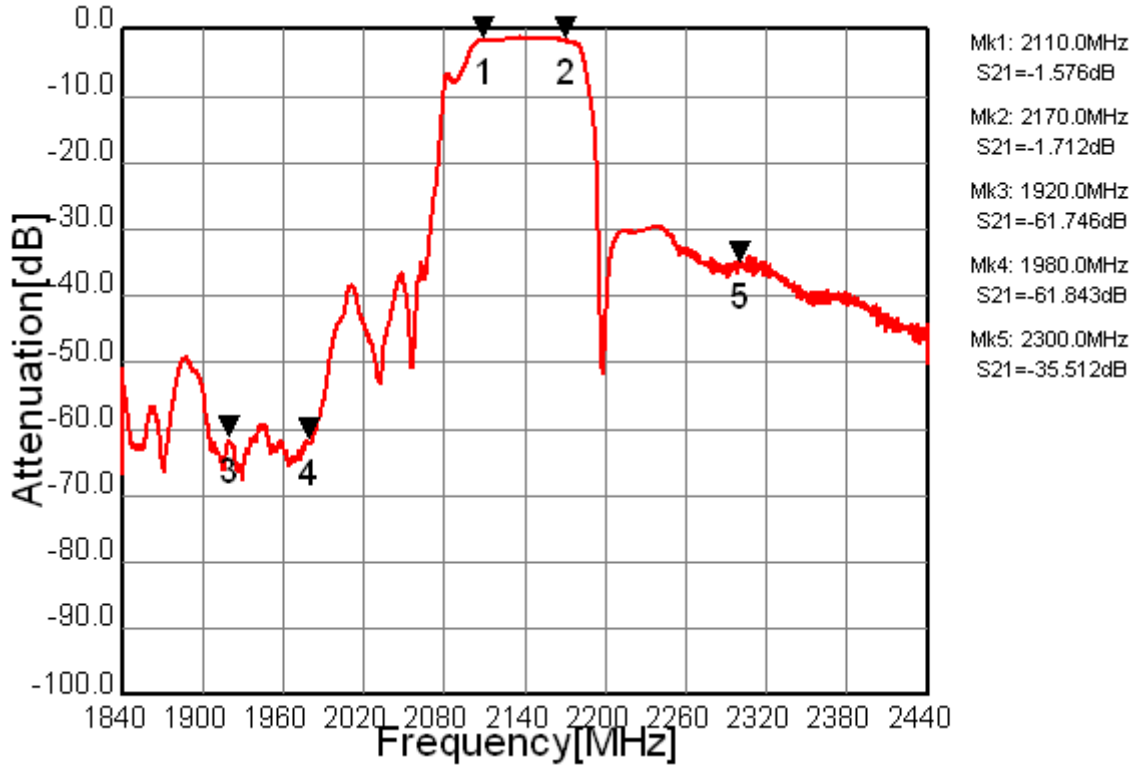


Fig.1 Pass-band Characteristic

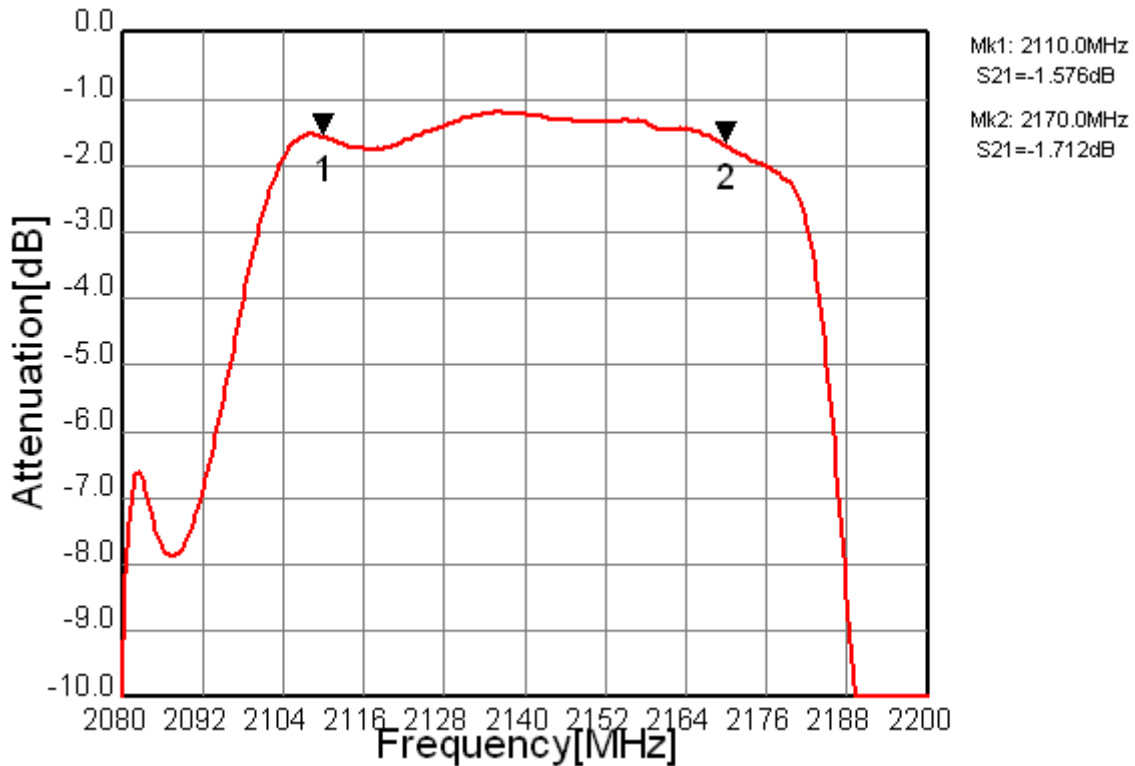


Fig.2 In-band Characteristic



MSL1

*Pb Free part

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System	W-CDMA I & IV Rx	DATE	Nov. 17, 2011
Part Number	F6QG2G140P2KA	Version 1.1a	Final

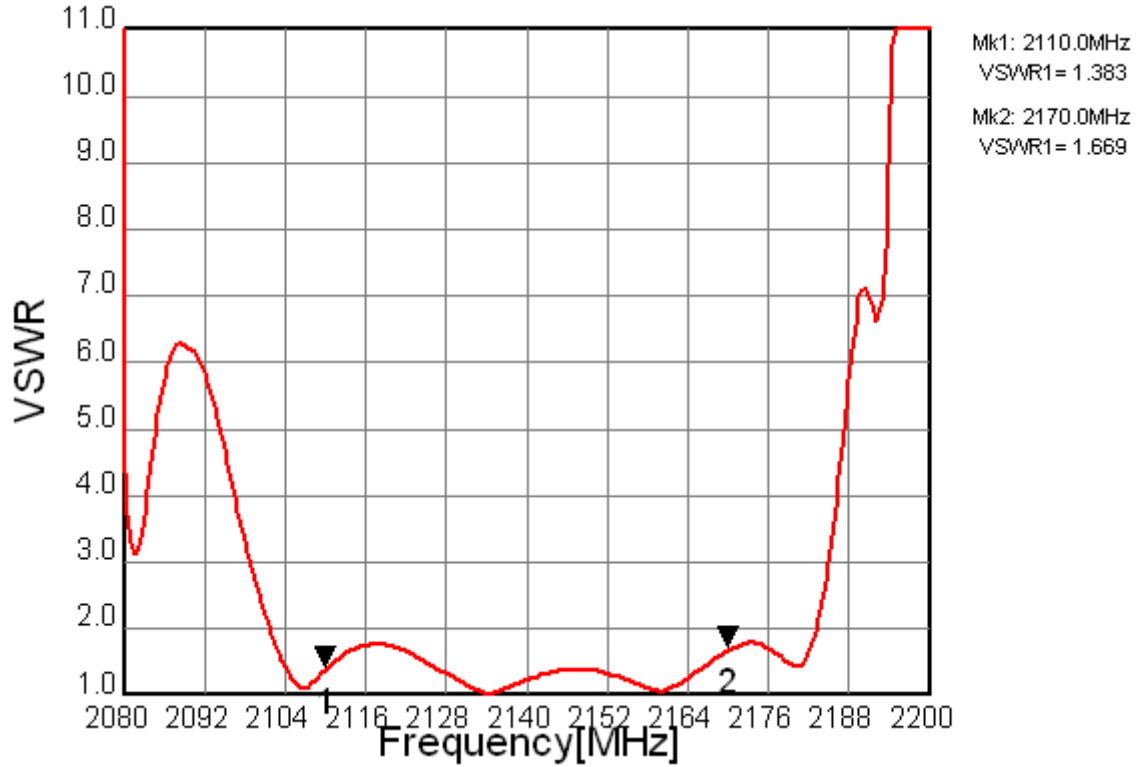


Fig.3 VSWR (INPUT)

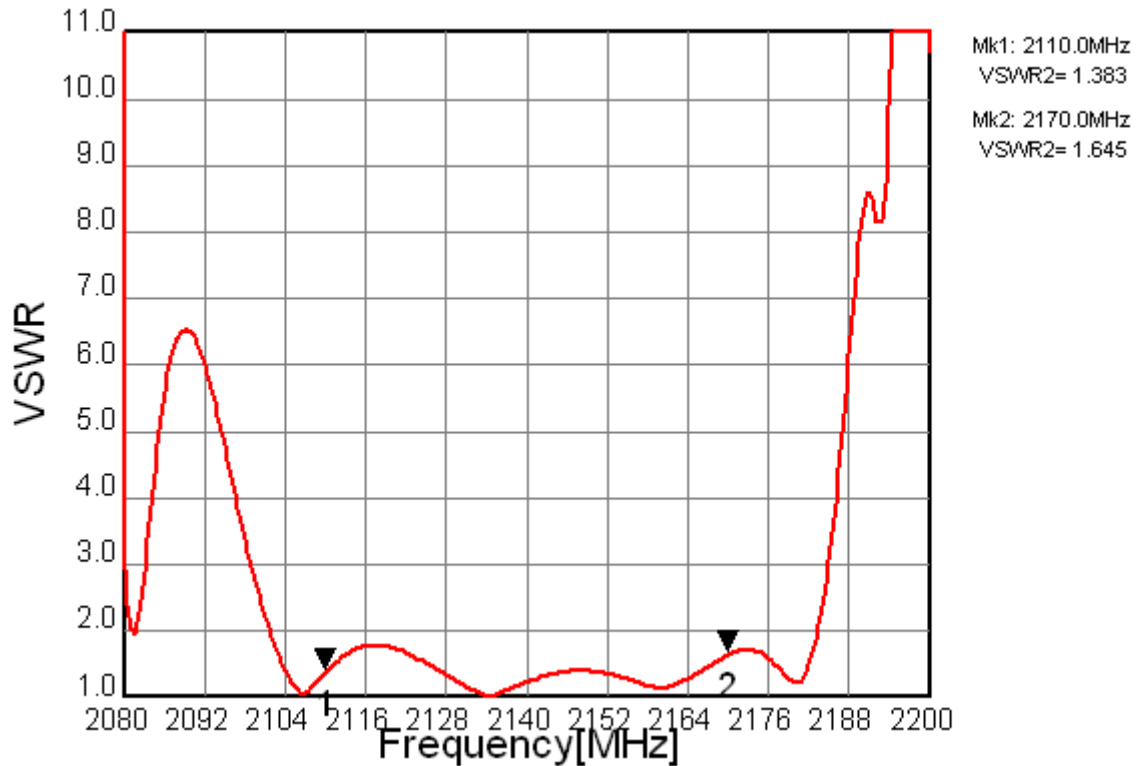


Fig.4 VSWR (OUTPUT)



MSL1

*Pb Free part

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System	W-CDMA I & IV Rx	DATE	Nov. 17, 2011
Part Number	F6QG2G140P2KA	Version 1.1a	Final

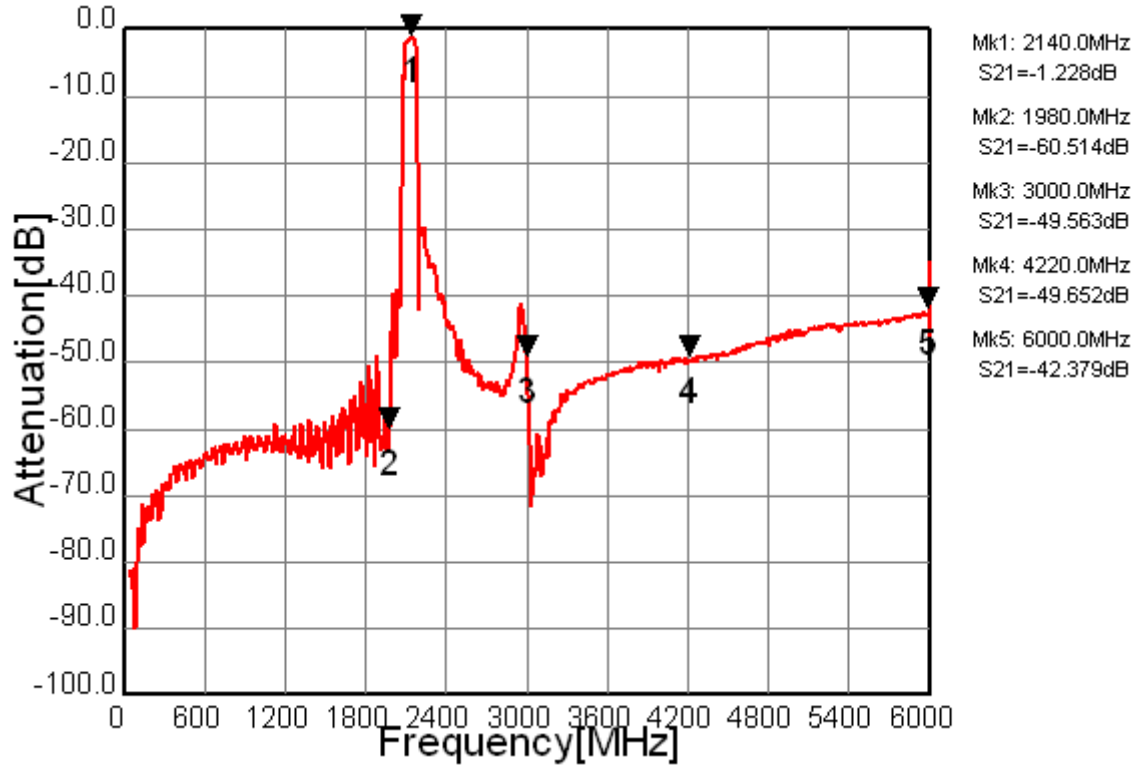


Fig.5 Wide-band Characteristic



MSL1

*Pb Free part

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System	W-CDMA I & IV Rx	DATE	Nov. 17, 2011
Part Number	F6QG2G140P2KA	Version 1.1a	Final

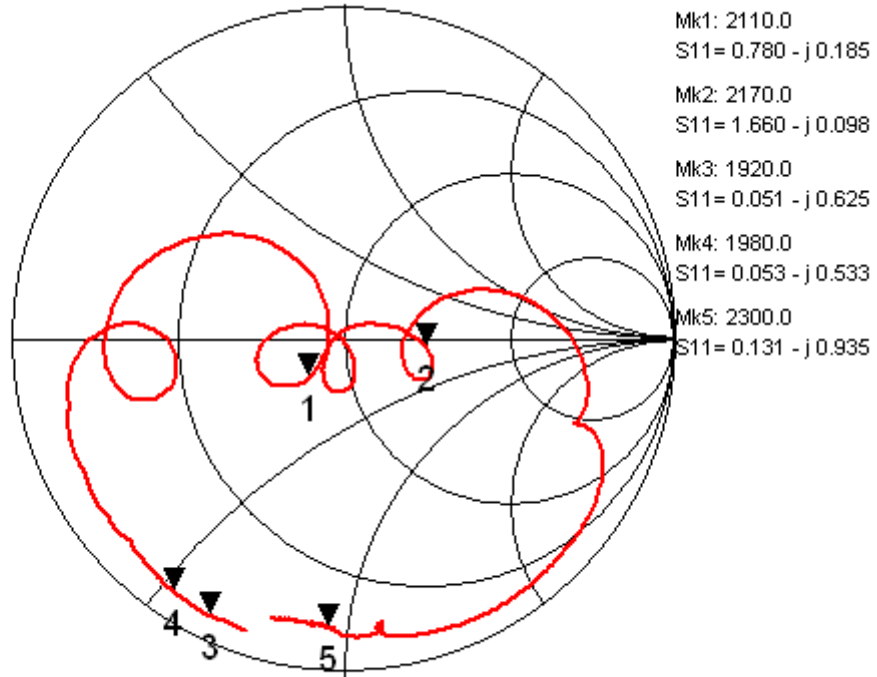


Fig.6 Impedance (S11)

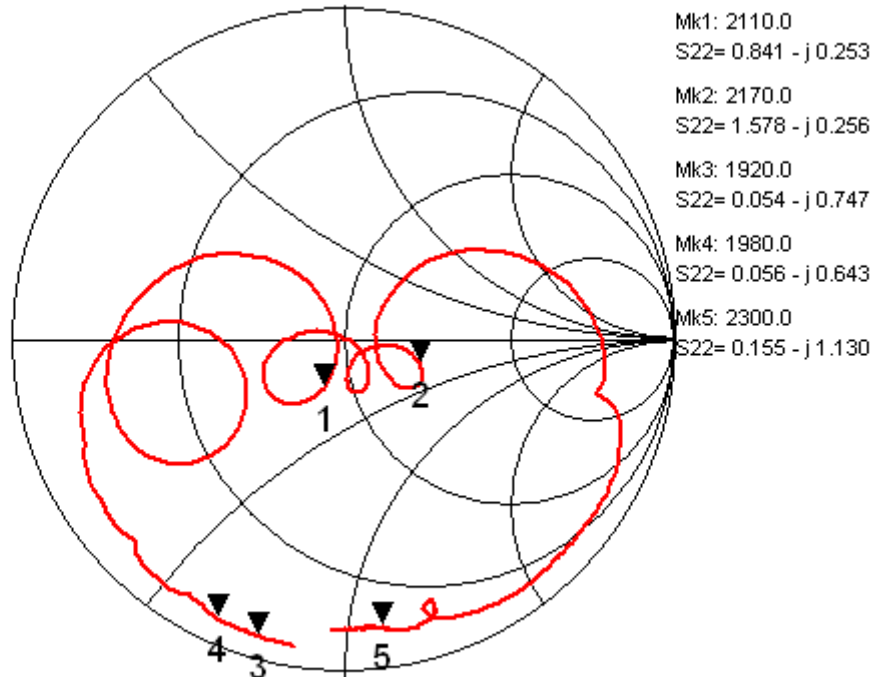


Fig.7 Impedance (S22)



MSL1

*Pb Free part

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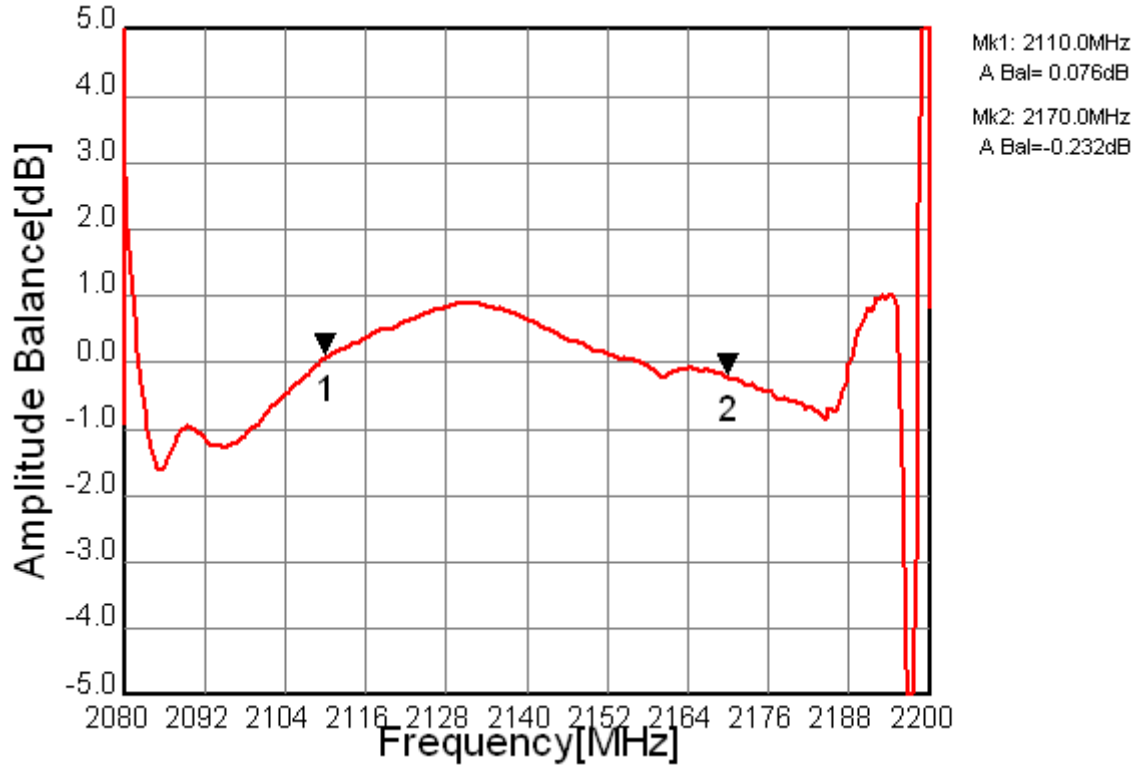


Fig.8 Amplitude balance

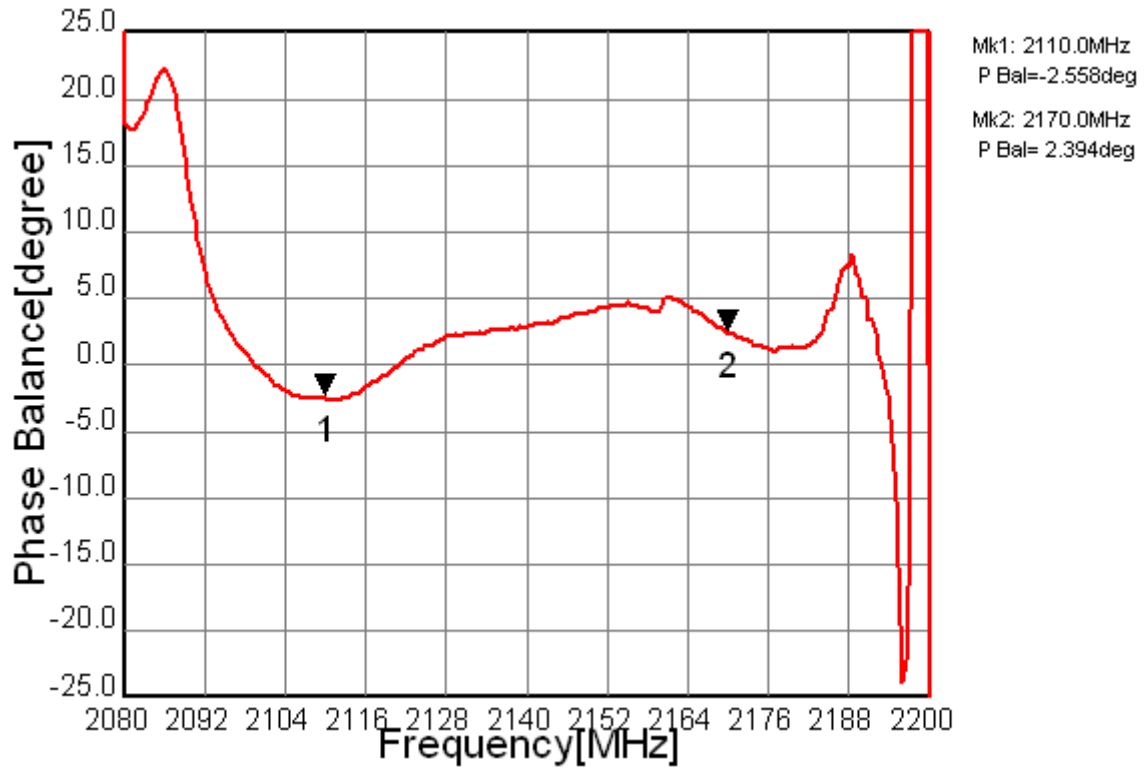


Fig.9 Phase balance



MSL1

*Pb Free part

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System	W-CDMA I & IV Rx	DATE	Nov. 17, 2011
Part Number	F6QG2G140P2KA	Version 1.1a	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
F6QG2G140P2KA-J	Tape & Reel	5,000 pcs.	MP
F6QG2G140P2KA-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QG2G140P2KA-Y	Tape & Reel	15,000 pcs.	MP
F6QG2G140P2KA-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.