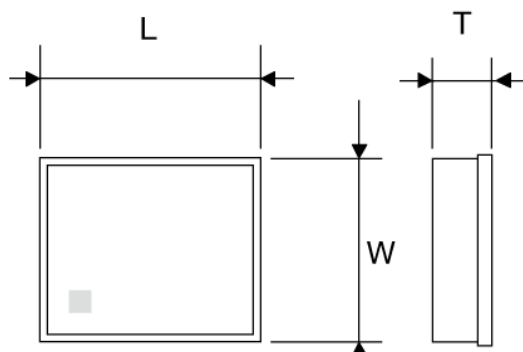


## SAW Filter

F6QG2G655P2KE



## ■ Features

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

## ■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B7
Use	WCDMA
Transmitting / Receiving	Rx Filter
Insertion Loss	2.5dB
Attenuation	52dB
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	<b>Standard Specification</b>	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band7-Rx	DATE	Feb. 15, 2013
Part Number	F6QG2G655P2KE	Version 1.0b	Final

**Table 1 Filter1 Electrical Specification**

Pass Band : 2620 ~ 2690 MHz						
Parameter	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss(*1)	2620 – 2690	-	2.5	3.3	dB	
Amplitude ripple	2620 – 2690	-	0.8	1.7	dB	
Input VSWR	2620 – 2690	-	1.6	2.1	-	
Output VSWR	2620 – 2690	-	1.5	2.0	-	
Attenuation	10 – 2500	40	53	-	dB	
	2500 – 2570	45	52	-	dB	
	2750 – 3000	18	25	-	dB	
	3000 – 4000	30	53	-	dB	
	4000 – 5240	30	52	-	dB	
	5240 – 5380	30	55	-	dB	
	5380 – 6000	25	55	-	dB	
Amplitude balance ( S21/S31 )	2620 – 2690	-1.6	-0.9/+0.8	+1.6	dB	
Phase balance (( $\phi$ S21- $\phi$ S31)+180)	2620 – 2690	-12	-5/+7	+12	deg.	
Operating temperature range		-30~ +85			°C	
Input Impedance (Unbalanced)		50			ohm	
Output Impedance (Balanced / differential)		100//15nH			ohm	
Device size		1.1typ. x 0.9typ. x 0.5max.			mm	

(\*1) Specification of insertion loss includes loss that comes from the test board. (Value: 0.15dB)



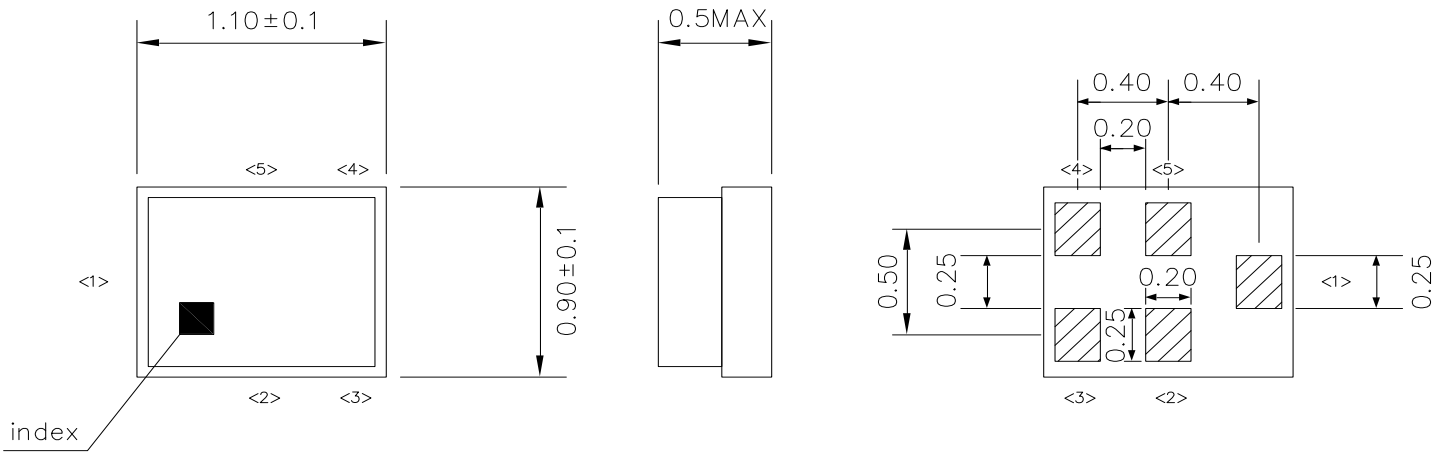
MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band7-Rx	DATE	Feb. 15, 2013
Part Number	F6QG2G655P2KE	Version 1.0b	Final

**Dimensions**

Device size: 1.1typ. x 0.9typ. x 0.5max.

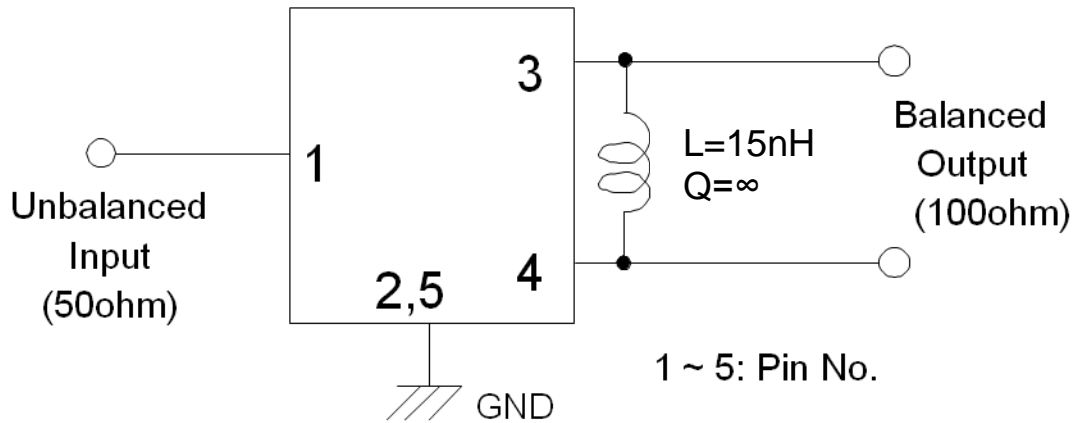


Unit : mm

**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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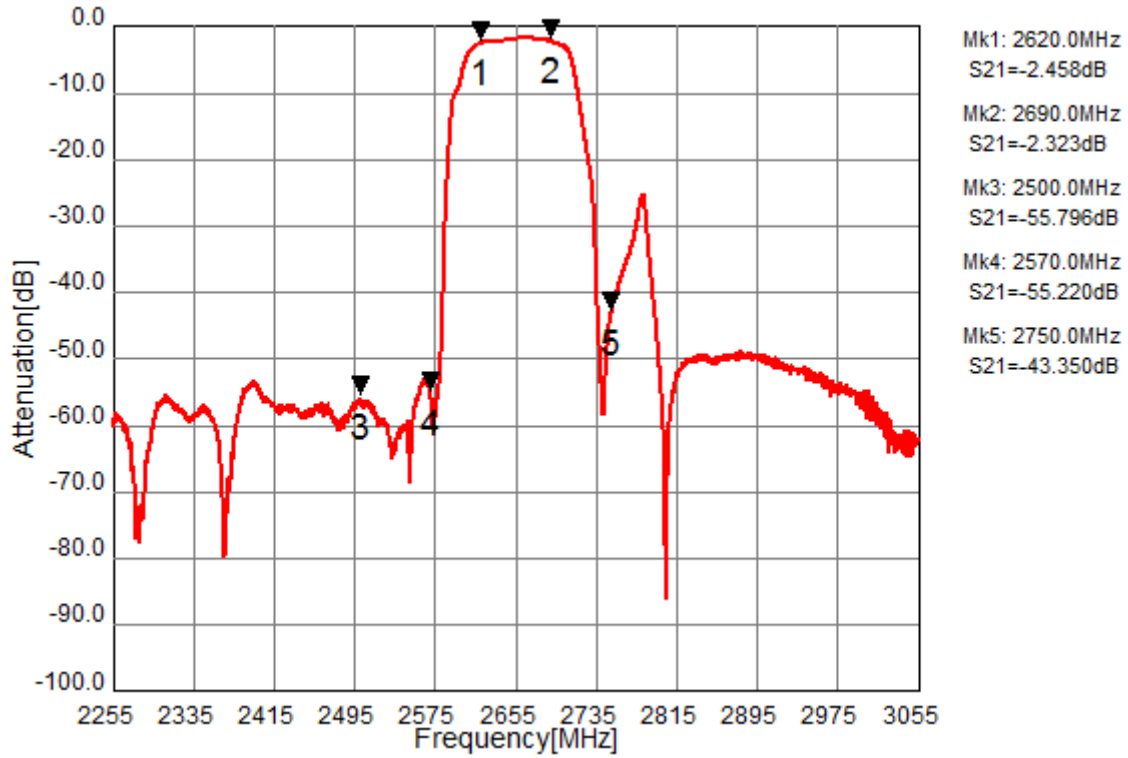


Fig.1 Pass-band Characteristic

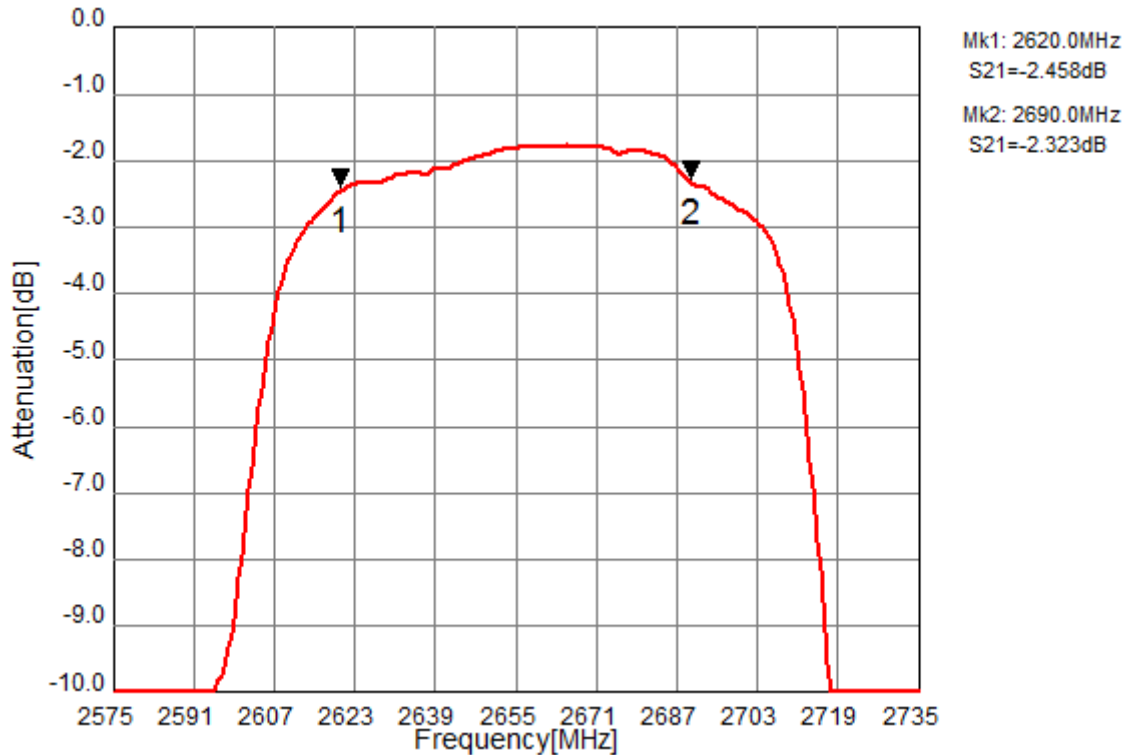


Fig.2 In-band Characteristic



MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band7-Rx	DATE	Feb. 15, 2013
Part Number	F6QG2G655P2KE	Version 1.0b	Final

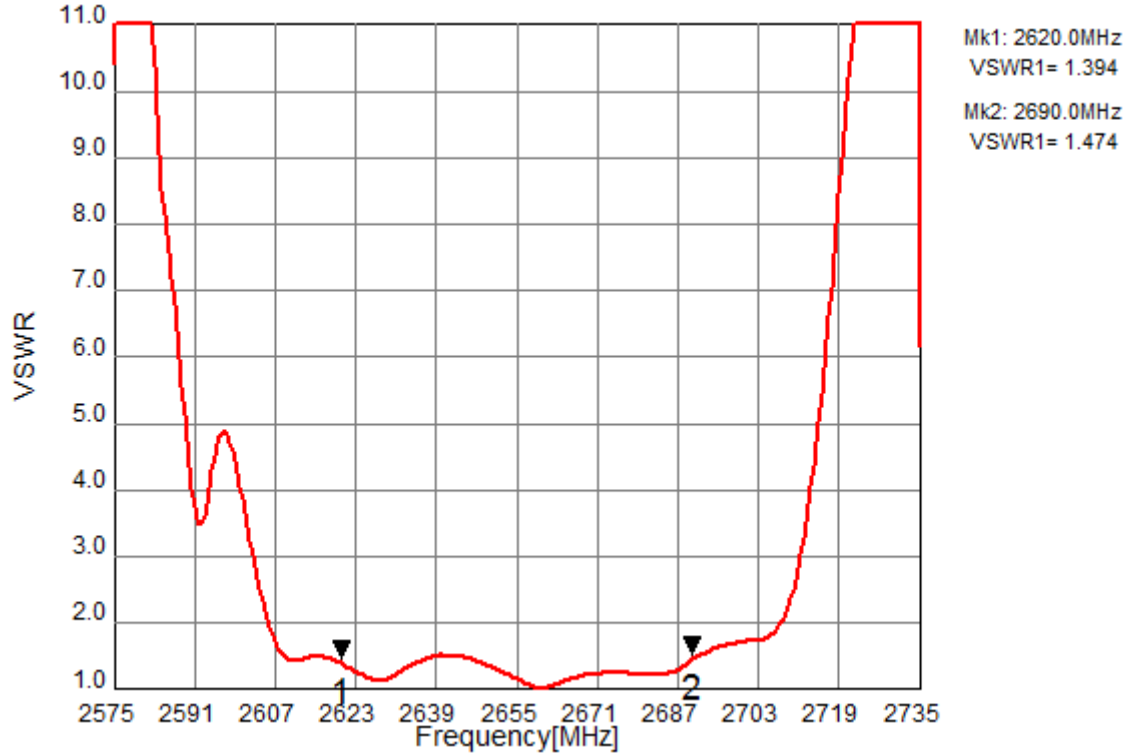


Fig.3 VSWR (INPUT)

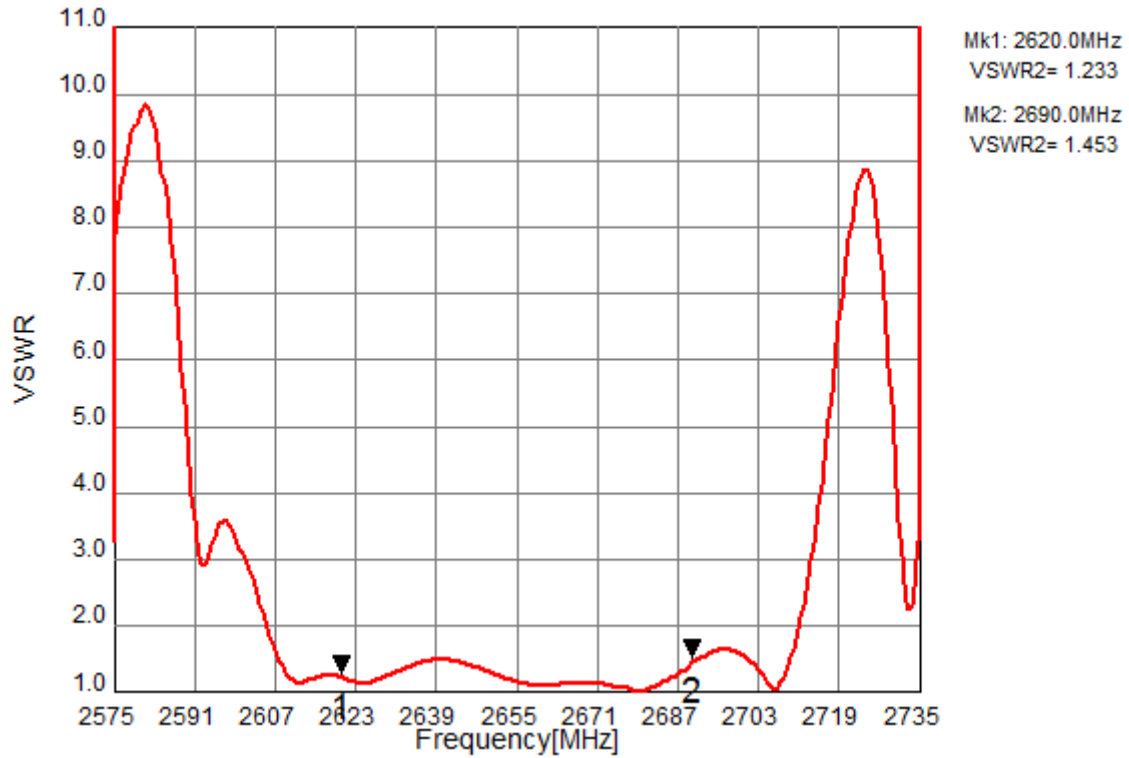


Fig.4 VSWR (OUTPUT)



MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band7-Rx	DATE	Feb. 15, 2013
Part Number	F6QG2G655P2KE	Version 1.0b	Final

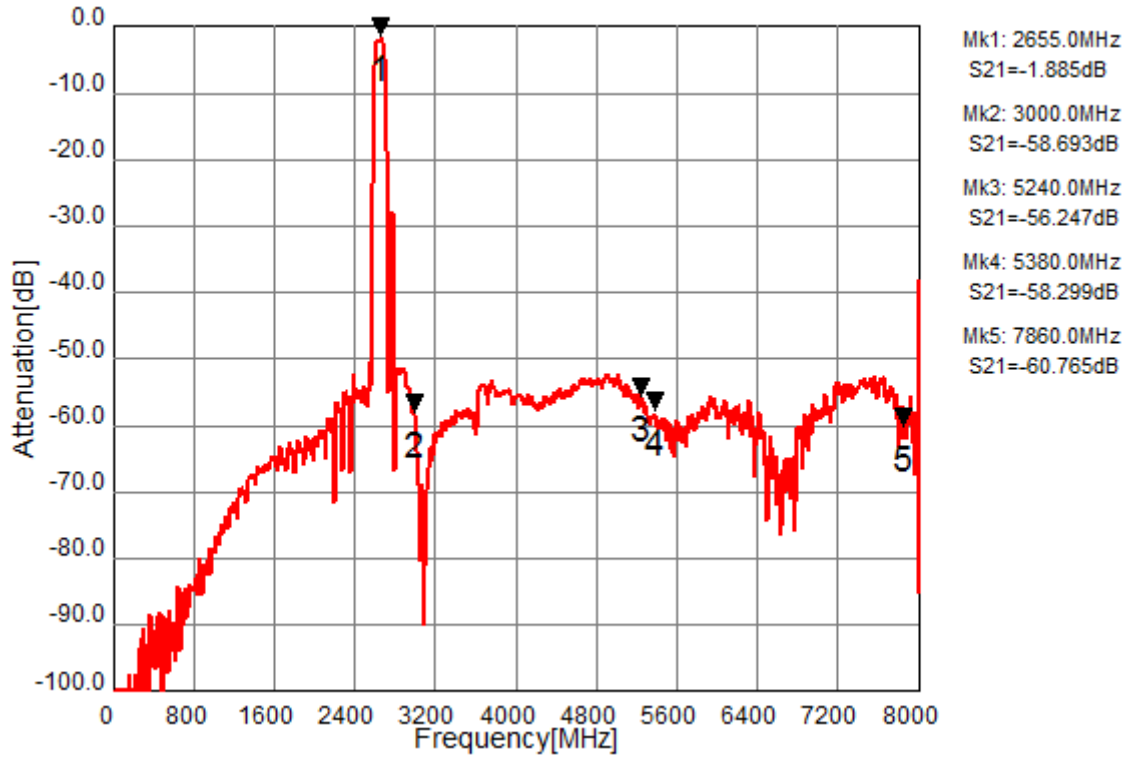


Fig.5 Wide-band Characteristic



MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band7-Rx	DATE	Feb. 15, 2013
Part Number	F6QG2G655P2KE	Version 1.0b	Final

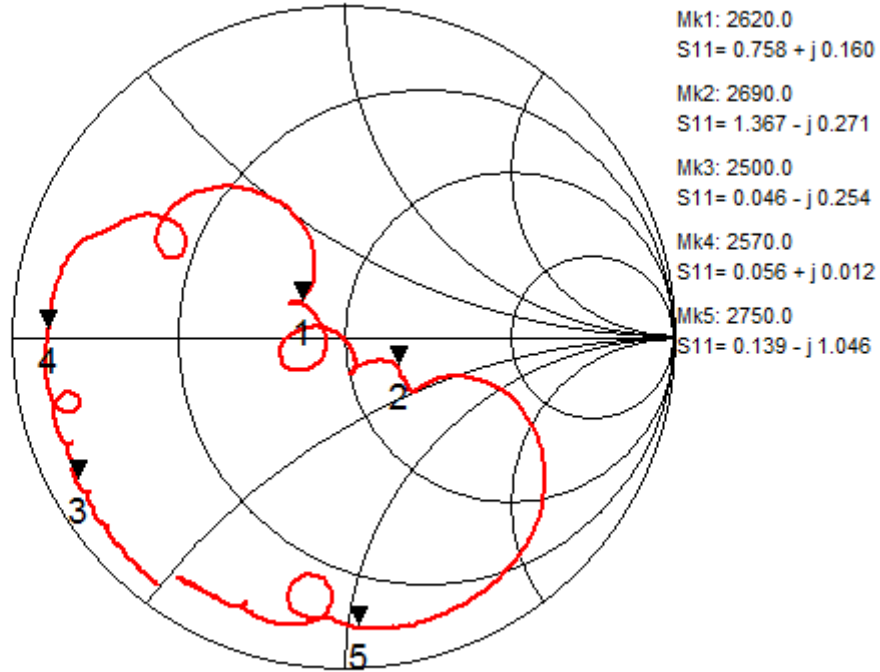


Fig.6 Impedance (S11)

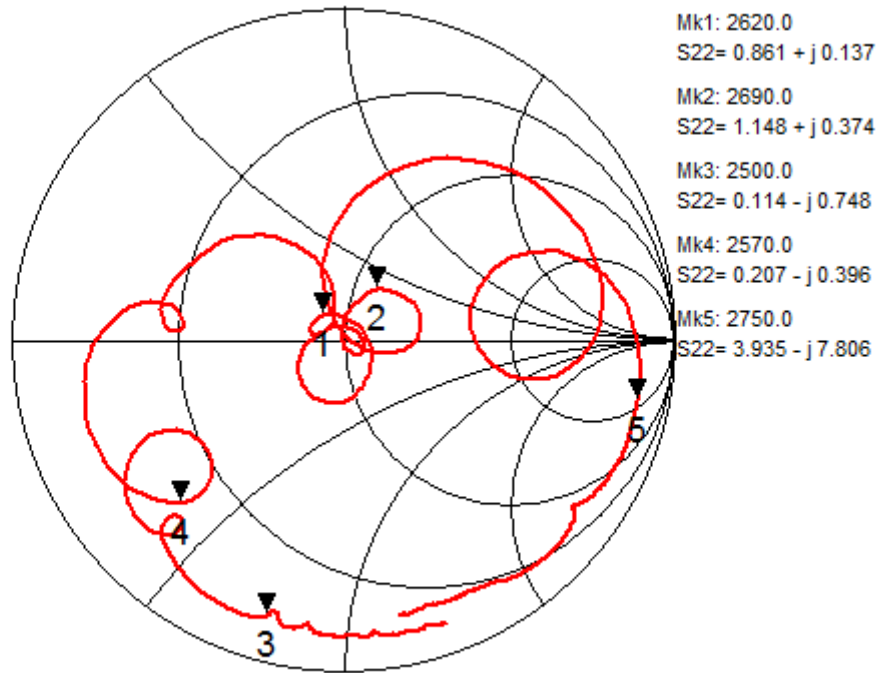


Fig.7 Impedance (S22)



MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
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Part Number	F6QG2G655P2KE	Version 1.0b	Final

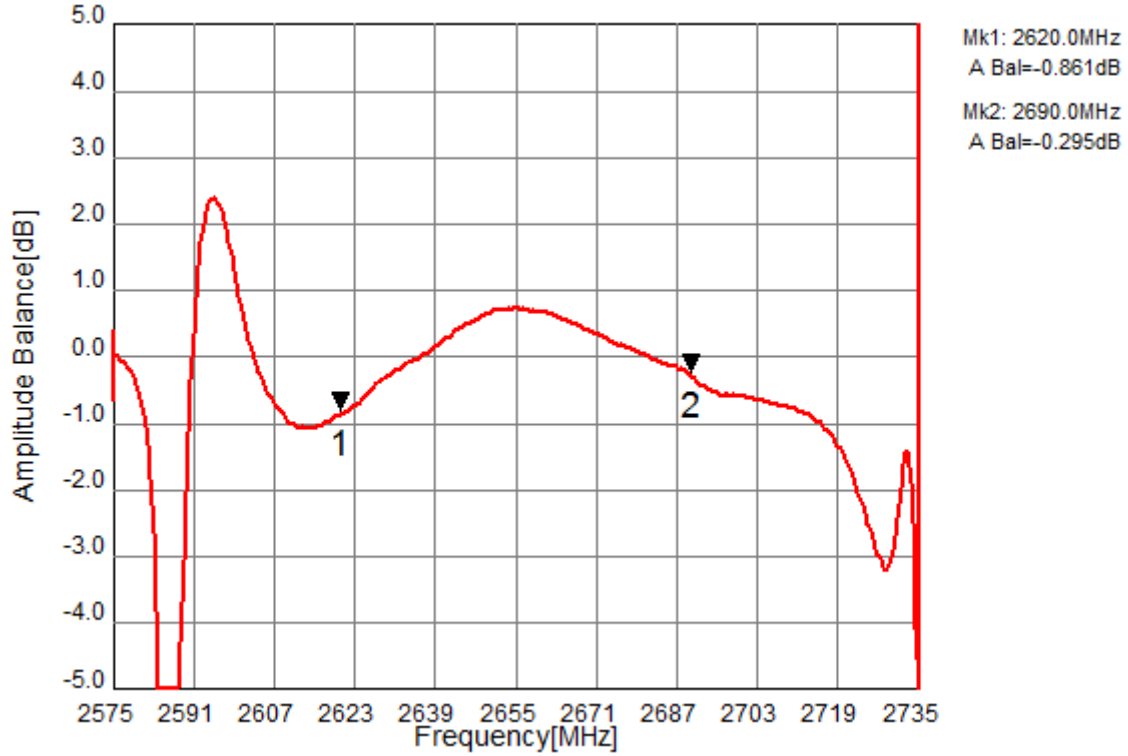


Fig.8 Amplitude balance

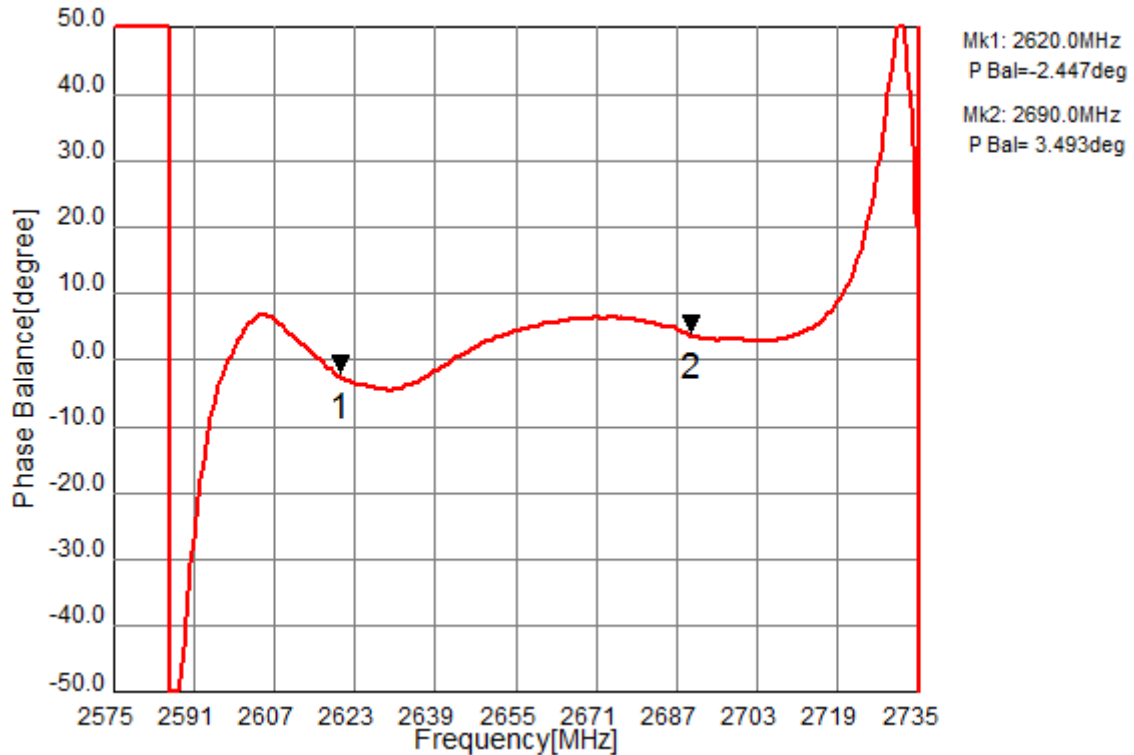


Fig.9 Phase balance





MSL1

\*Pb Free part

Customer Name	<b>Standard Specification</b>	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band7-Rx	DATE	Feb. 15, 2013
Part Number	F6QG2G655P2KE	Version 1.0b	Final

## Ordering Code

Ordering Code	Packing	Reel size	Status
F6QG2G655P2KE-J	Tape & Reel	5,000 pcs.	MP
F6QG2G655P2KE-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QG2G655P2KE-Y	Tape & Reel	15,000 pcs.	MP
F6QG2G655P2KE-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QG2G655P2KE-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.