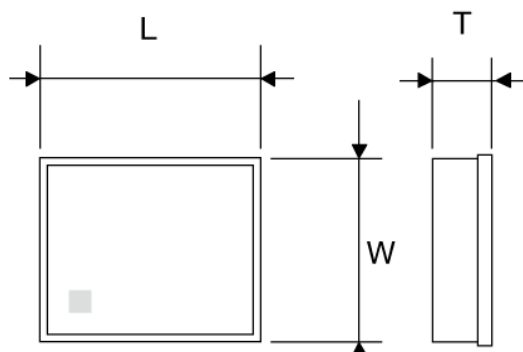


SAW Filter

F6QB1G842P2BF



■ Features

- Item Summary
GSM1800, 403
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 5000 , 15000pcs

■ Products characteristics table

Temperature Range	-30 to +85°C
GSM	1800
Use	GSM
Transmitting / Receiving	Rx Filter
Insertion Loss	1.6dB
Attenuation	17dB
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	GSM1800-Rx (50/150ohm)	DATE	Jan. 29, 2013
Part Number	F6QB1G842P2BF	Version 4.0d	Final

Table 1. Electrical specifications

Pass Band (1805-1880MHz)						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	1805-1880	-	1.6	2.2	dB(*1)	
Ripple	1805-1880	-	0.4	1.3	dB	
Input VSWR	1805-1880	-	2.1	2.4	-	
Output VSWR	1805-1880	-	2.1	2.4	-	
Absolute attenuation	DC-1300	40	47	-	dB	
	1300-1705	30	40	-	dB	
	1705-1785	13	17	-	dB	
	1920-1980	20	23	-	dB	
	1980-3000	20	23	-	dB	
	3000-5000	40	52	-	dB	
5000-6000	30	46	-	dB		
Amplitude balance (S ₂₁ /S ₃₁)	1805-1880	-1.2	-0.2/+0.6	+1.2	dB	
Phase balance ((∠S ₂₁ -∠S ₃₁)+180)	1805-1880	-10	-3/+5	+10	deg	
Input impedance (Unbalanced)		50			Ohm	
Output impedance (Balanced)		150//18nH			Ohm	
Operating temperature		-30 to +85			°C	

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



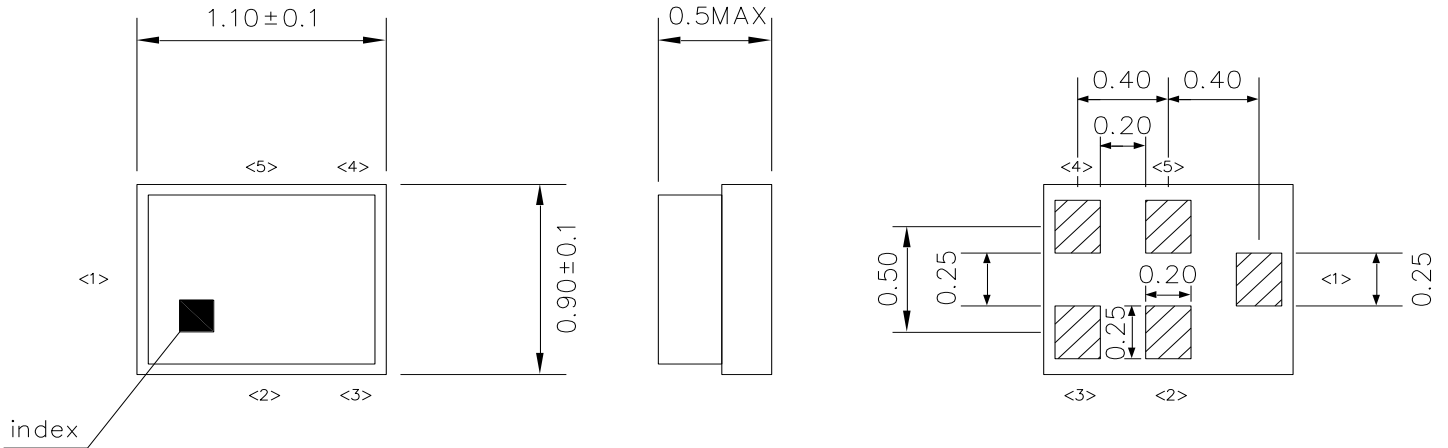
MSL1

*Pb Free part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GSM1800-Rx (50/150ohm)	DATE	Jan. 29, 2013
Part Number	F6QB1G842P2BF	Version 4.0d	Final

Dimensions

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

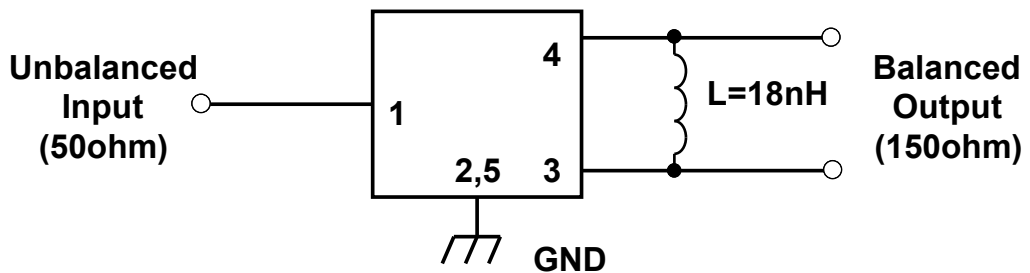


Unit : mm

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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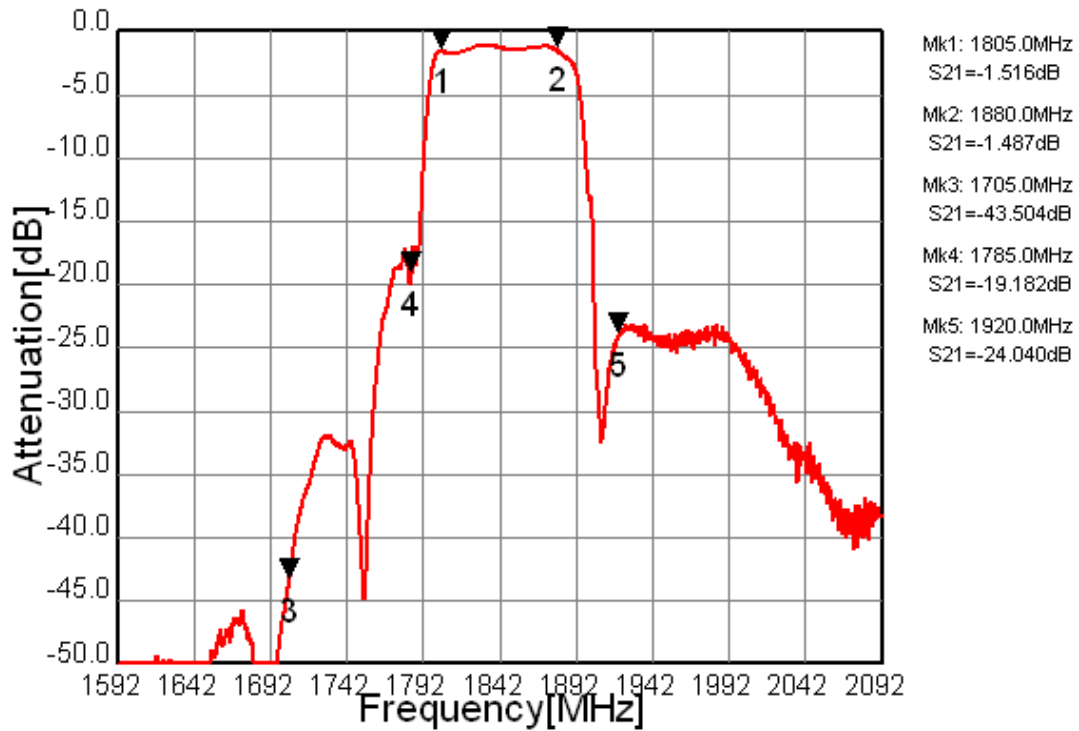


Fig.1 Pass-band Characteristic

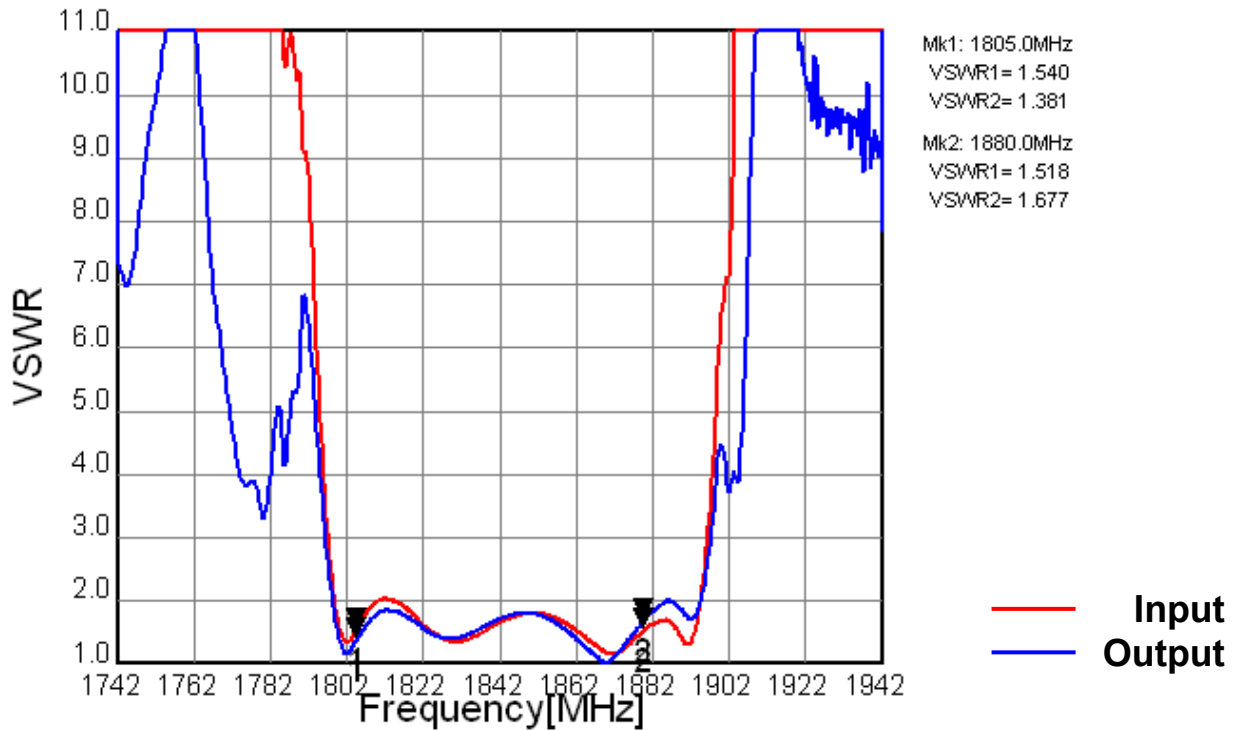


Fig.2 VSWR



MSL1

*Pb Free part

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System	GSM1800-Rx (50/150ohm)	DATE	Jan. 29, 2013
Part Number	F6QB1G842P2BF	Version 4.0d	Final

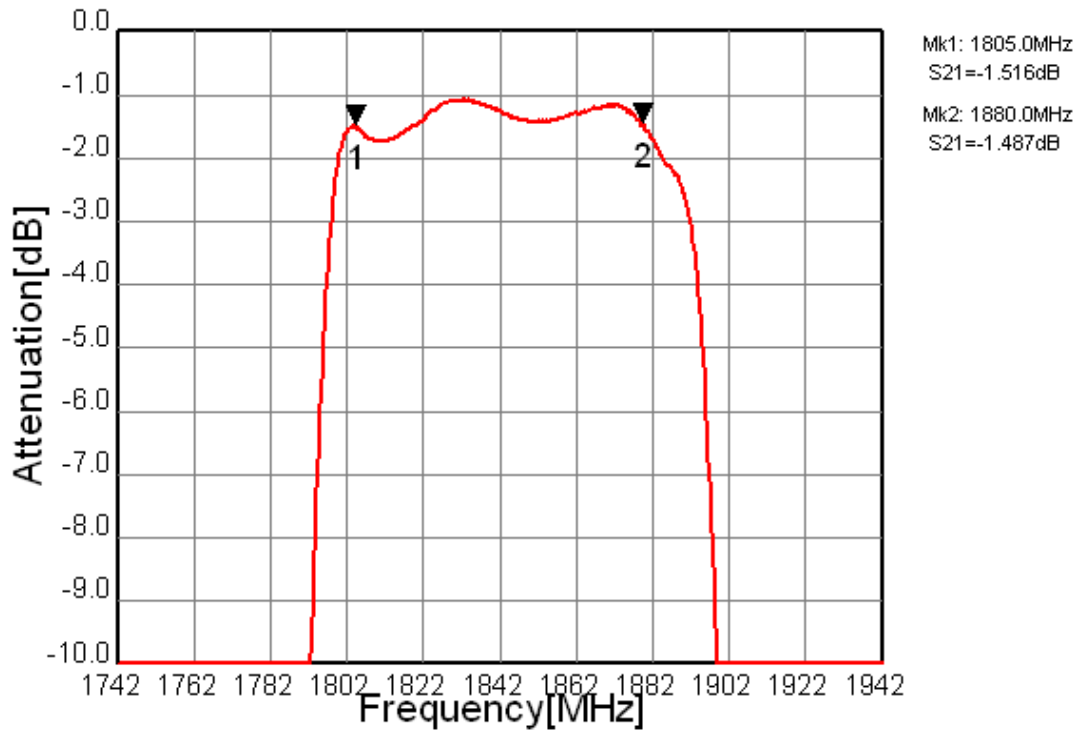


Fig.3 In-band Characteristic

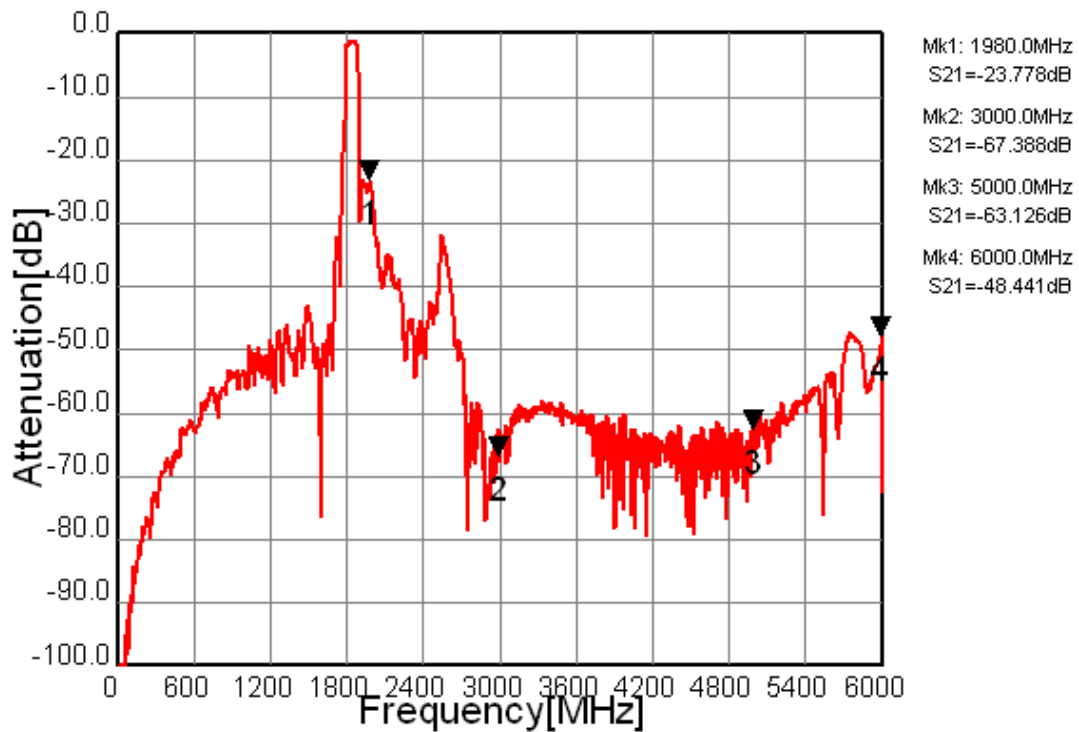


Fig.4 Wide-band Characteristic



MSL1

*Pb Free part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GSM1800-Rx (50/150ohm)	DATE	Jan. 29, 2013
Part Number	F6QB1G842P2BF	Version 4.0d	Final

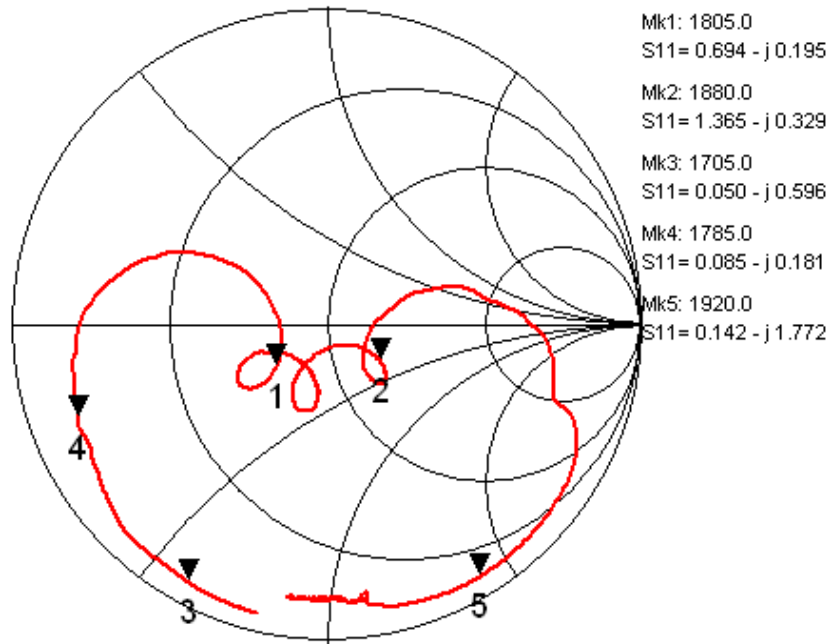


Fig.5 Impedance (S11)

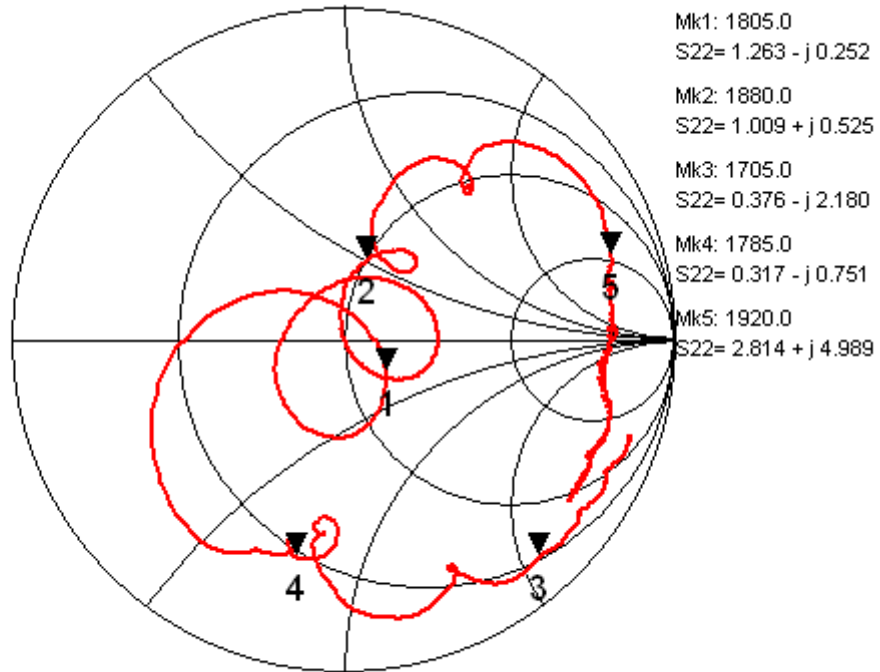


Fig.6 Impedance (S22)



MSL1

*Pb Free part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GSM1800-Rx (50/150ohm)	DATE	Jan. 29, 2013
Part Number	F6QB1G842P2BF	Version 4.0d	Final

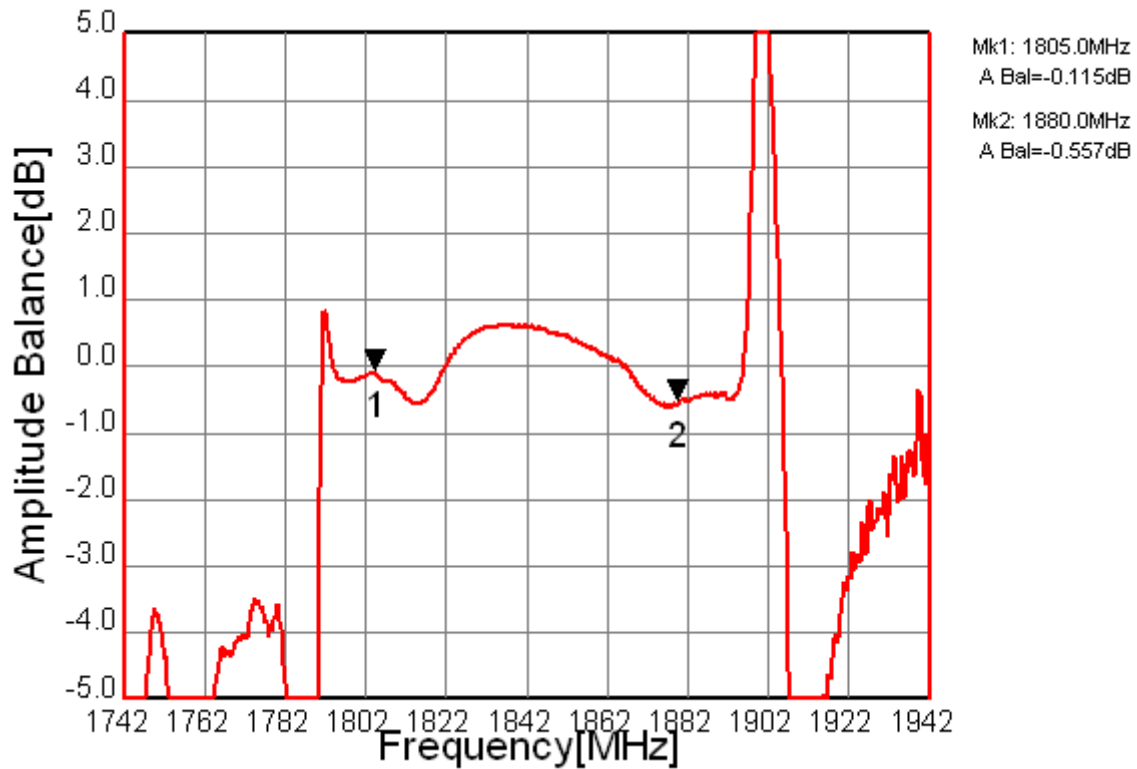


Fig.7 Amplitude Balance

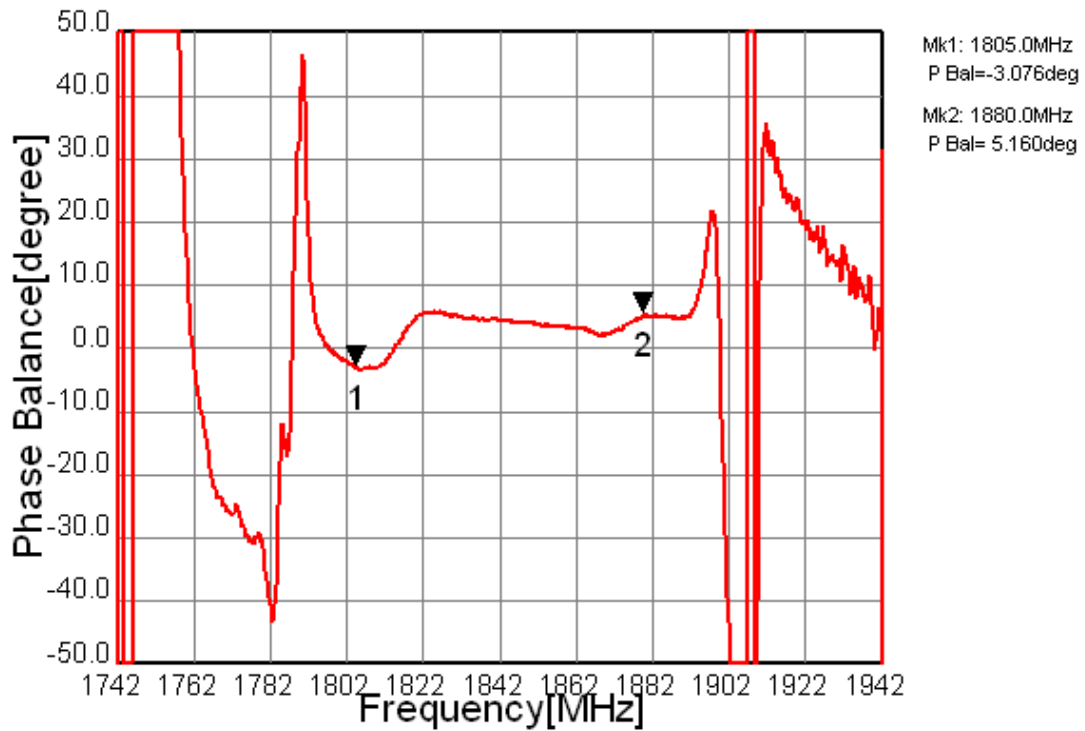


Fig.8 Phase Balance



MSL1

*Pb Free part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GSM1800-Rx (50/150ohm)	DATE	Jan. 29, 2013
Part Number	F6QB1G842P2BF	Version 4.0d	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
F6QB1G842P2BF-J	Tape & Reel	5,000 pcs.	MP
F6QB1G842P2BF-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QB1G842P2BF-Y	Tape & Reel	15,000 pcs.	MP
F6QB1G842P2BF-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QB1G842P2BF-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.