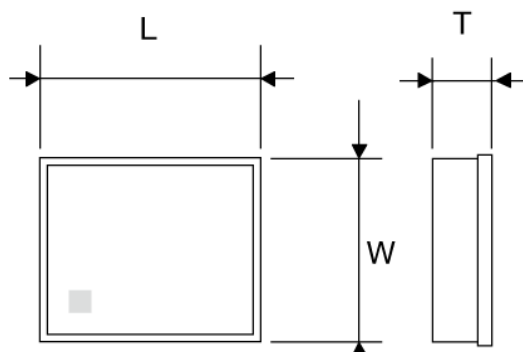


## SAW Filter

## F6QB1G842P2BM



## ■ 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	1.8dB
Attenuation	15dB
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 (50/100ohm)	DATE	Apr. 2, 2012
Part Number	F6QB1G842P2BM	Version 1.0a	<b>Final</b>

**Table 1. Electrical specifications**

Passband: 1805 ~ 1880 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1805~1880	-	1.8	2.3	dB(*1)	
Ripple	1805~1880	-	0.8	1.5	dB	
Absolute attenuation	DC~1705	29	34	-	dB	
	1705~1785	11	15	-	dB	
	1920~1980	23	28	-	dB	
	1980~2400	24	28	-	dB	
	2400~2500	35	44	-	dB	
	2500~3000	25	33	-	dB	
	3000~6000	35	50	-	dB	
VSWR (Input)	1805~1880	-	1.8	2.2	-	
VSWR (Output)	1805~1880	-	1.8	2.2	-	
Amplitude Balance  S21 / S31	1805~1880	-1.2	-0.7/+0.7	+1.2	dB	
Phase Balance ( $\Phi$ S21- $\Phi$ S31)-180	1805~1880	-10	-5.0/+5.0	+10	deg.	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balance	100//12nH			ohm	
Operating Temperature		-30 ~ +85			°C	

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



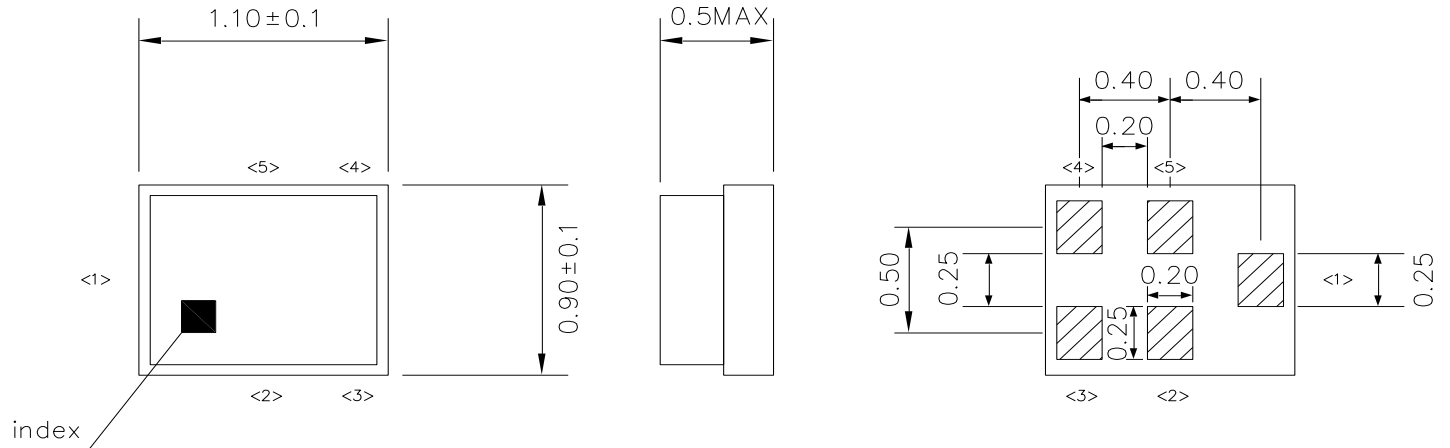
MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GSM1800 Rx (50/100ohm)	DATE	Apr. 2, 2012
Part Number	F6QB1G842P2BM	Version 1.0a	Final

### Dimensions

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

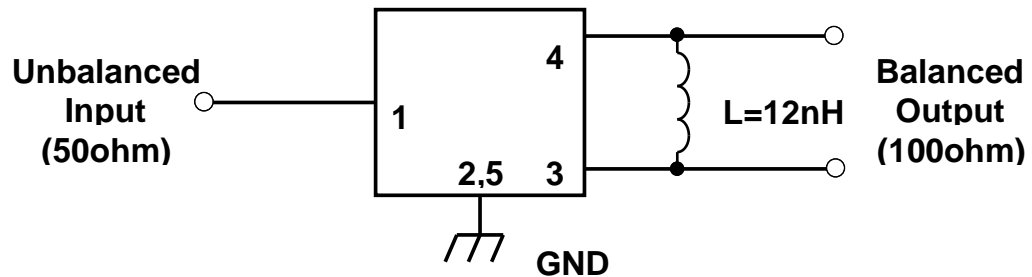


Unit: mm

### 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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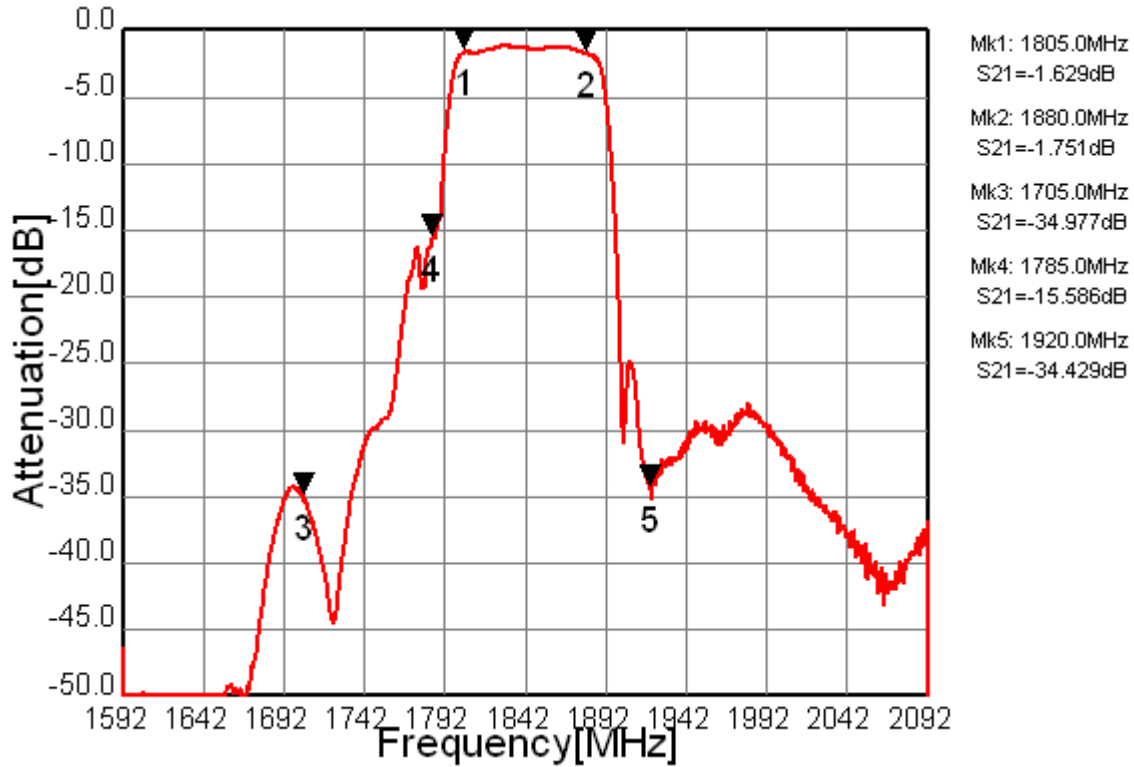


Fig.1 Pass-band Characteristics

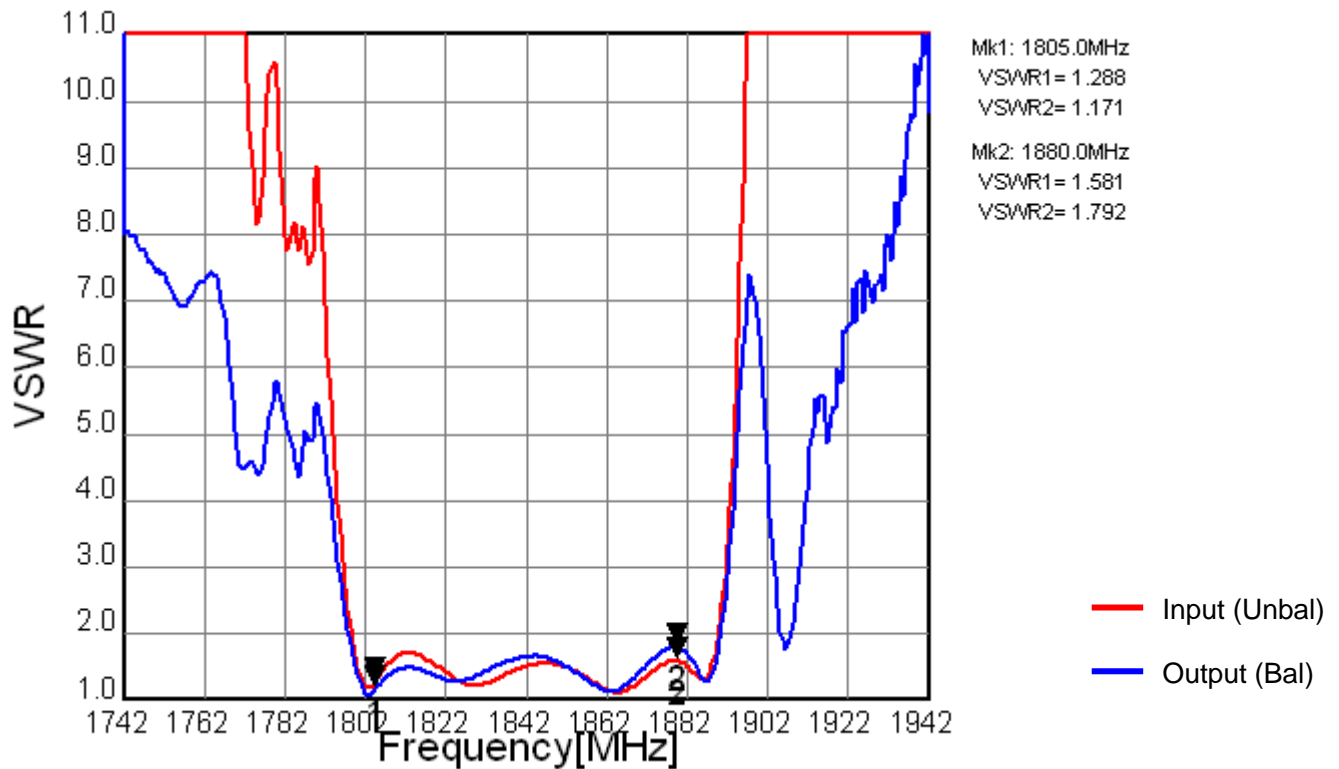


Fig.2 VSWR



MSL1

\*Pb Free part

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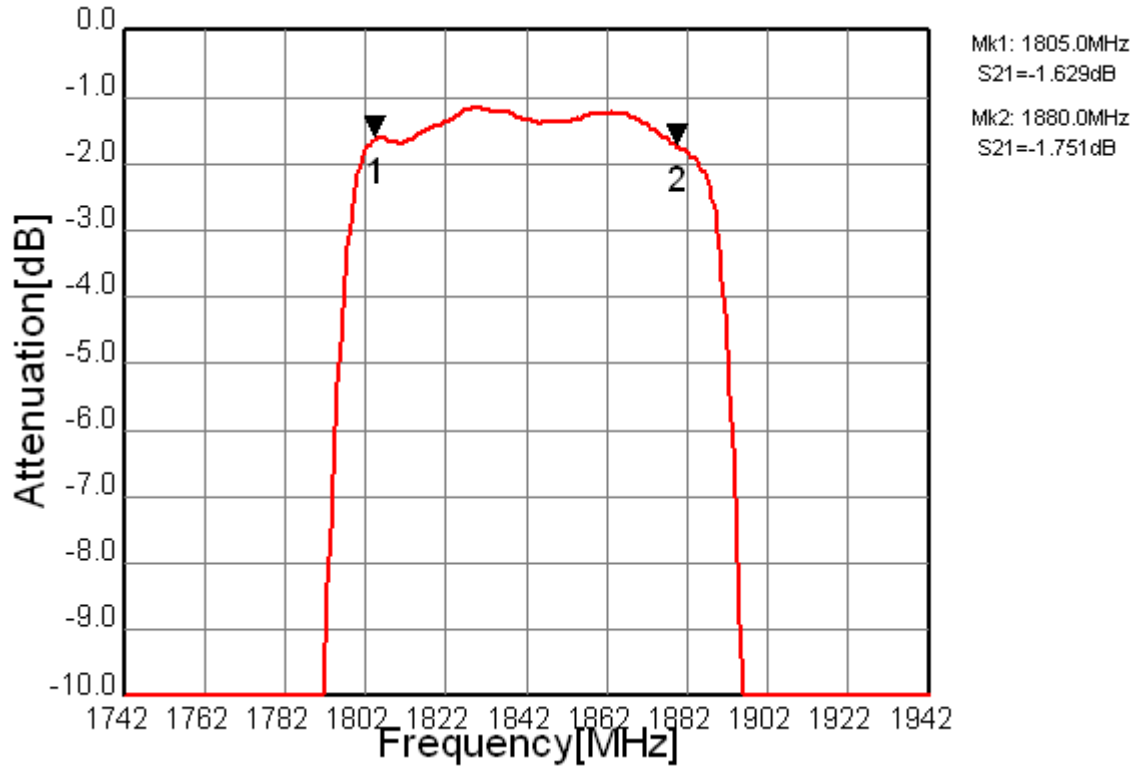


Fig.3 In-band Characteristics

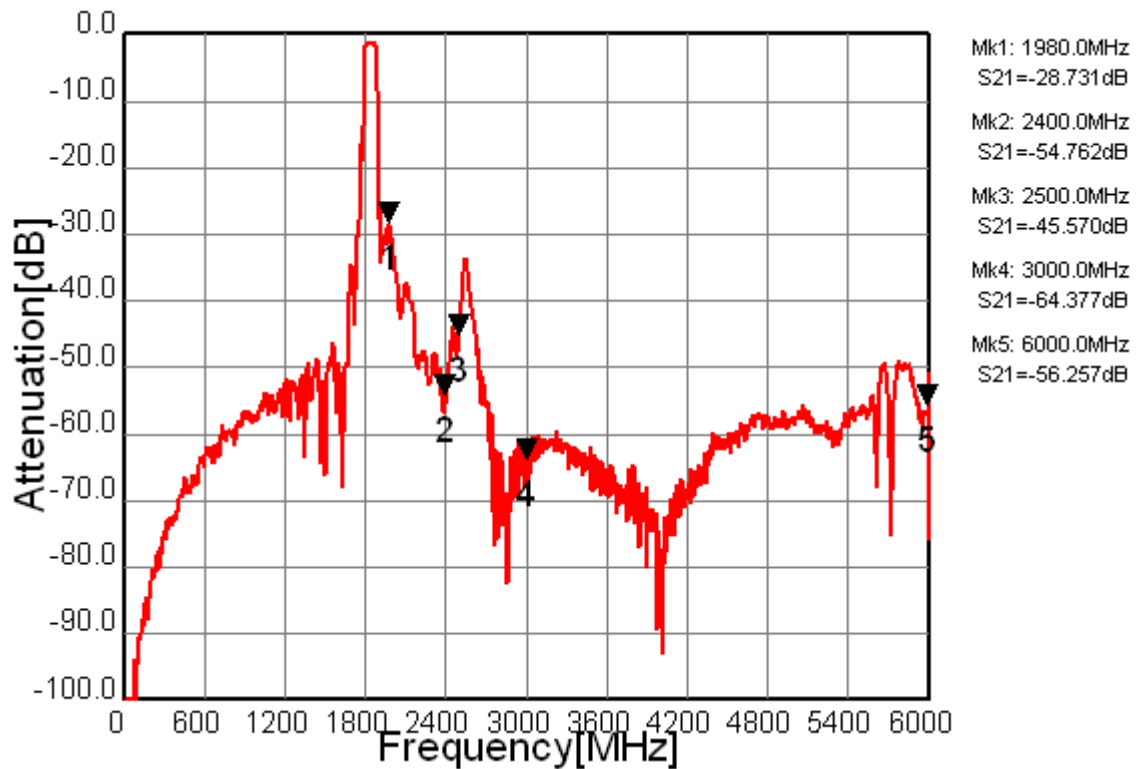


Fig. 4 Wide-band Characteristics



MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GSM1800 Rx (50/100ohm)	DATE	Apr. 2, 2012
Part Number	F6QB1G842P2BM	Version 1.0a	<b>Final</b>

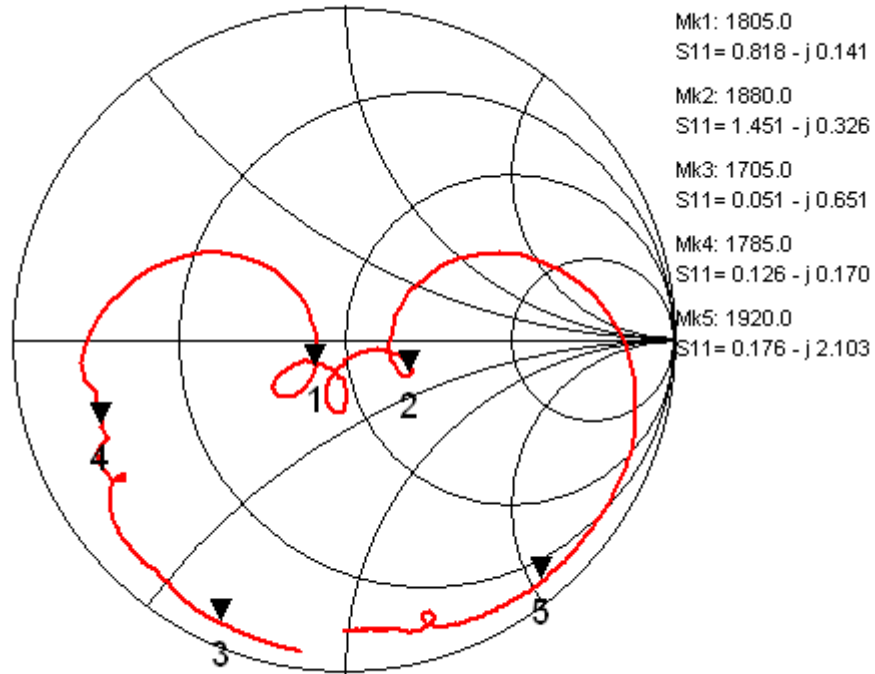


Fig. 5 Input Impedance (Unbalanced)

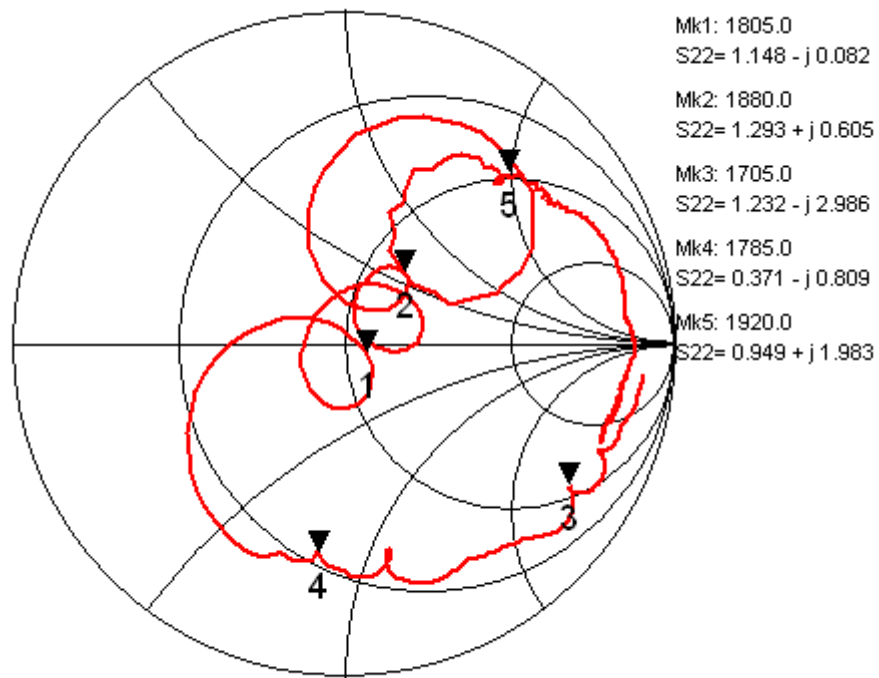


Fig.6 Output Impedance (Balanced)



MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
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Part Number	F6QB1G842P2BM	Version 1.0a	<b>Final</b>

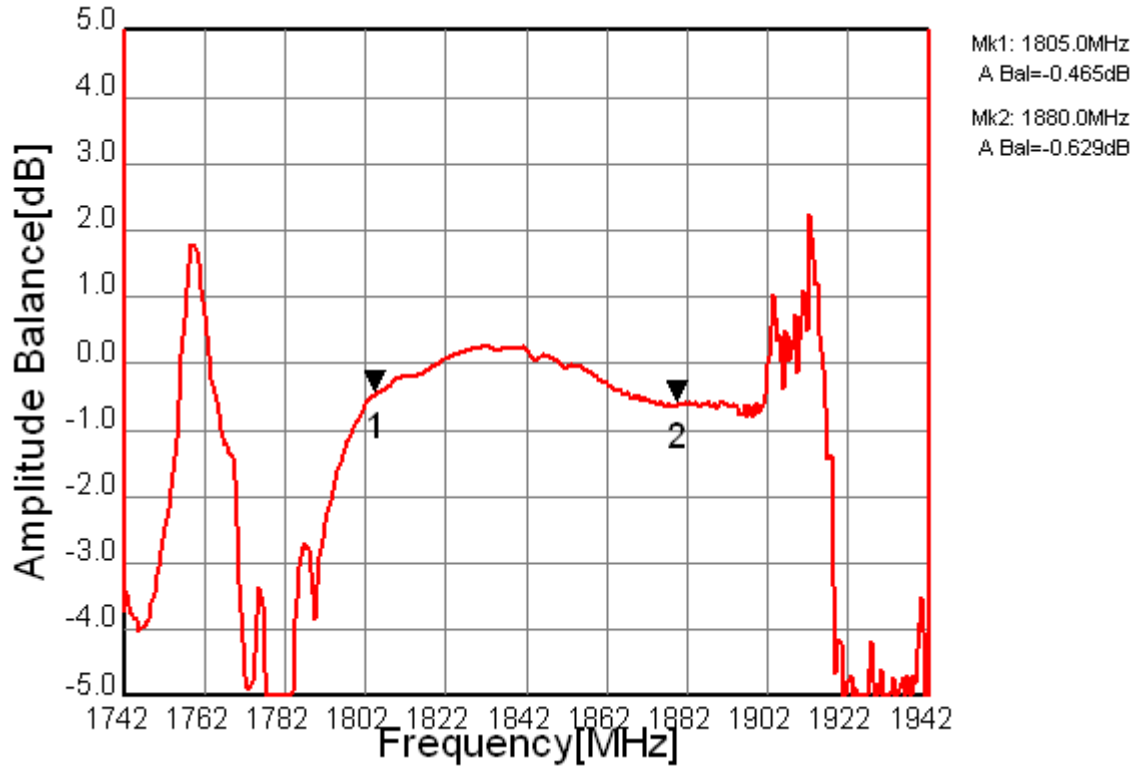


Fig. 7 Amplitude Balanced

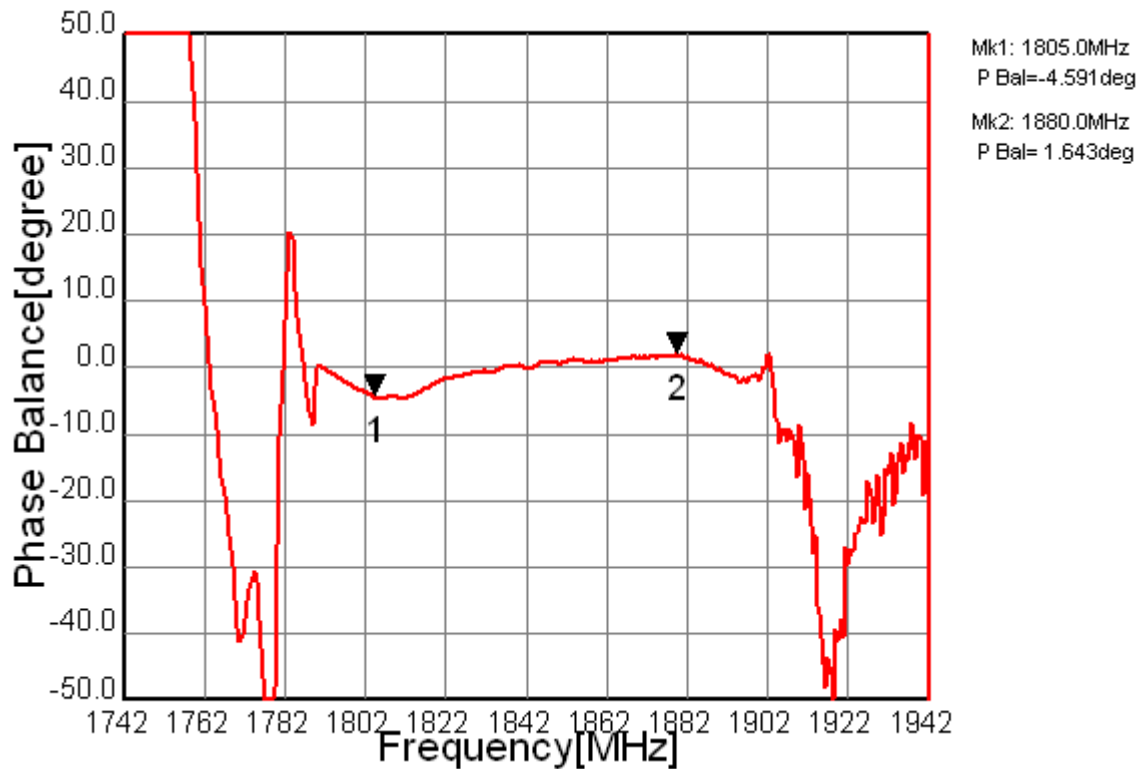


Fig.8 Phase Balanced



MSL1

\*Pb Free part

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Part Number	F6QB1G842P2BM	Version 1.0a	<b>Final</b>

## Ordering Code

Ordering Code	Packing	Reel size	Status
F6QB1G842P2BM-J	Tape & Reel	5,000 pcs.	MP
F6QB1G842P2BM-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QB1G842P2BM-Y	Tape & Reel	15,000pcs	MP
F6QB1G842P2BM-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.