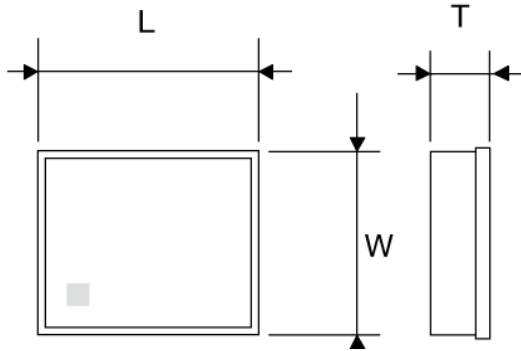


SAW Filter

FAR-F6KB-1 G8800-B4GS



■ Features

- Item Summary
W-CDMA / CDMA , Tx, 504
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 3000 , 15000pcs

■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B2
Band(3GPP2)	BC1
Use	WCDMA / CDMA
Transmitting / Receiving	Tx Filter
Insertion Loss	2.3dB
Attenuation	28dB
RoHS Compliance	Yes
Halogen Free	Yes
Soldering Method	Reflow

■ External Dimensions

L	1.4mm +0.1:-0.1
W	1.0mm +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	PCS-Tx (100/50 ohm,)	Date	March 31, 2010
Part Number	FAR-F6KB-1G8800-B4GS	Version 2.1b	

Table 1-1 Electrical Specification

Passband:1850.5 ~ 1909.5 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1850.5~1909.5 MHz	-	2.3	3.0	dB	Ta=+25+/-2°C
		-	-	3.7	dB	
Ripple	1850.5~1909.5 MHz	-	0.8	2.4	dB	
Absolute attenuation	DC~1770 MHz	25	37	-	dB	
	1770~1830 MHz	10	22	-	dB	
	1930.5~1989.5 MHz	25	28	-	dB	Ta=+25+/-2°C
		22	-	-	dB	
	1989.5~2400 MHz	25	32	-	dB	
	2400~3000 MHz	30	38	-	dB	
3000~6000 MHz	35	40	-	dB		
VSWR (Input)	1850.5~1909.5 MHz	-	1.9	2.3	-	
VSWR (Output)	1850.5~1909.5MHz	-	1.8	2.3	-	
Amplitude Balance S21 / S31	1850.5~1909.5 MHz	-1.7	-0.9/+1.2	+1.7	dB	
Phase Balance (∠S21-∠S31)-180	1850.5~1909.5 MHz	-12	-2/+3	+12	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	100//22nH			Ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ.x1.0typ.x0.5max.			mm	



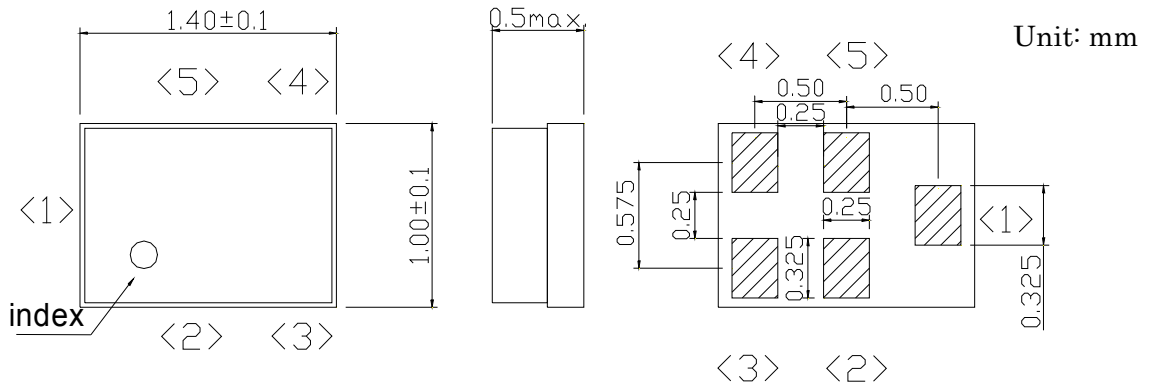
MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Tx (100/50 ohm,)	Date	March 31, 2010
Part Number	FAR-F6KB-1G8800-B4GS	Version 2.1b	

Dimensions

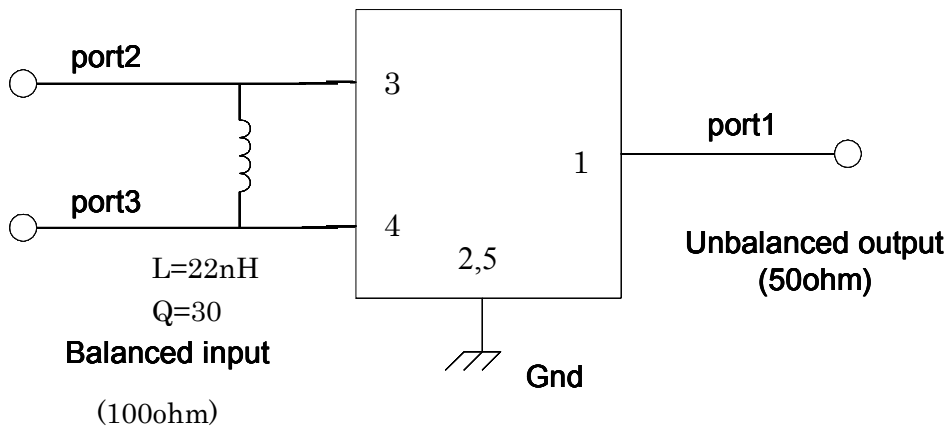
Device size: 1.4typ. x 1.0typ. x 0.5max



Pin Configuration

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

Evaluation Circuit





MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Tx (100/50 ohm,)	Date	March 31, 2010
Part Number	FAR-F6KB-1G8800-B4GS	Version 2.1b	

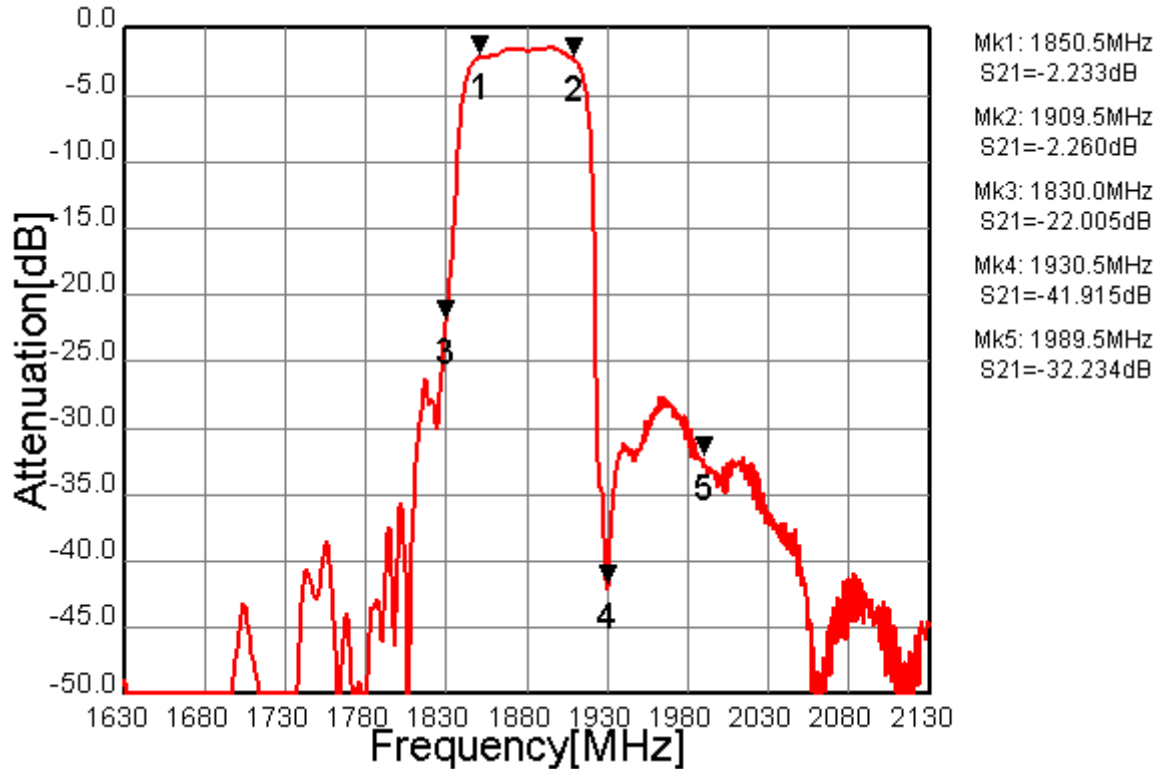


Fig.1-1 Pass-band Characteristics

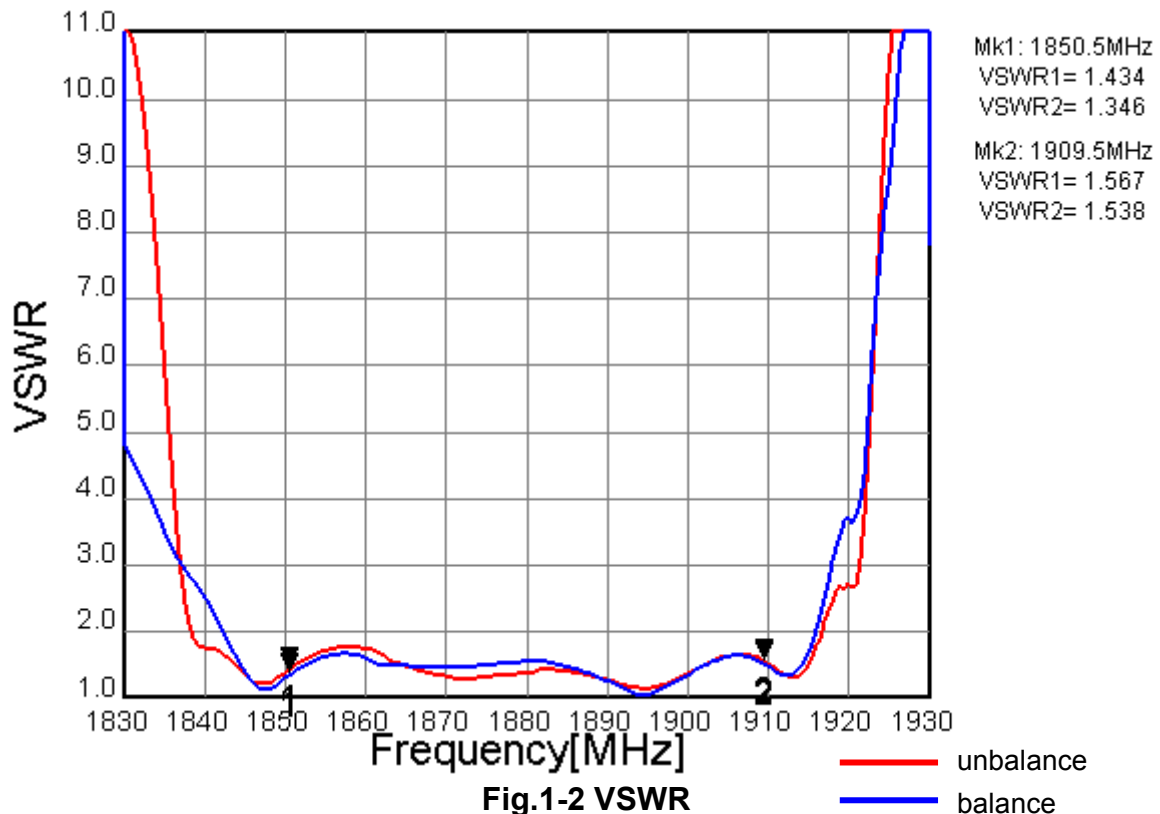


Fig.1-2 VSWR



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Tx (100/50 ohm,)	Date	March 31, 2010
Part Number	FAR-F6KB-1G8800-B4GS	Version 2.1b	

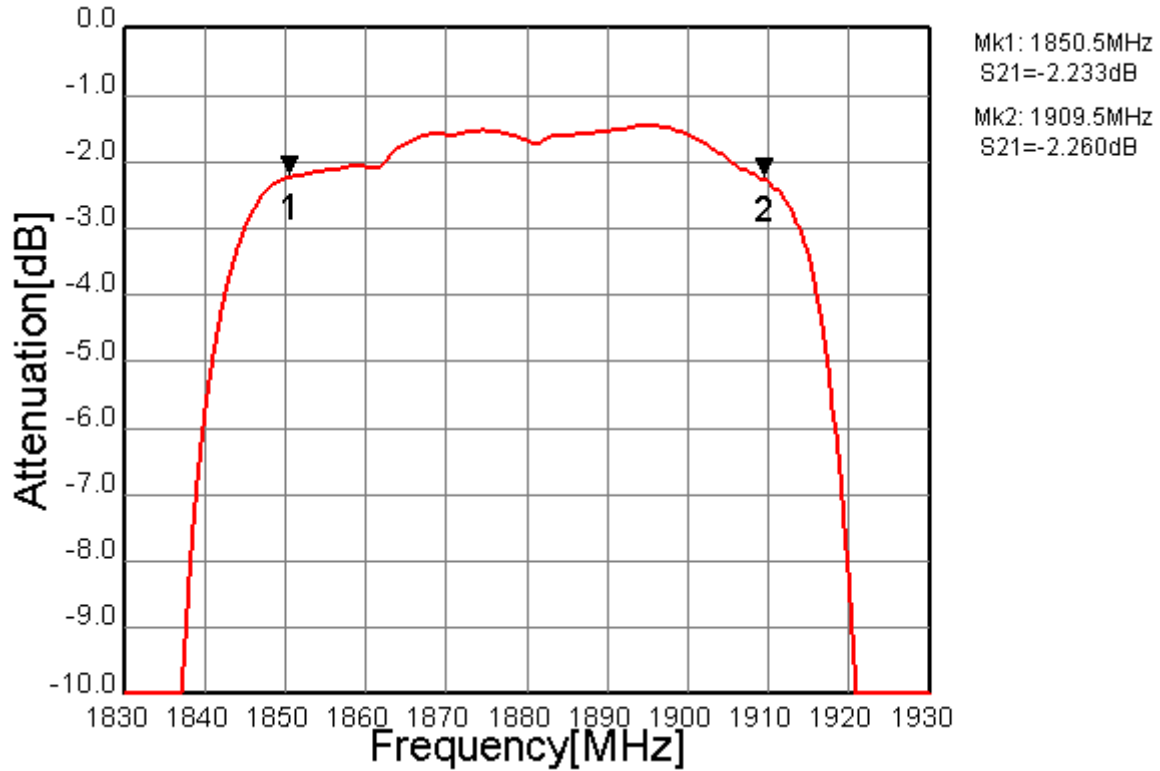


Fig.1-3 In-band Characteristics

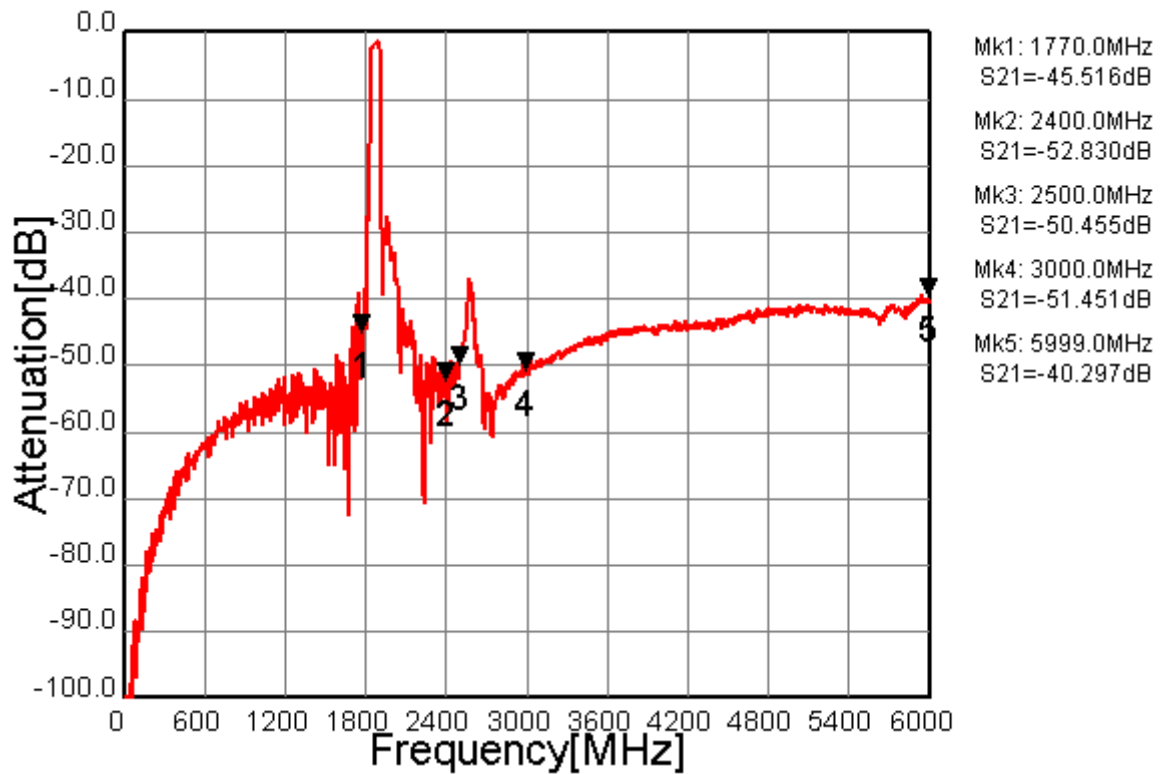


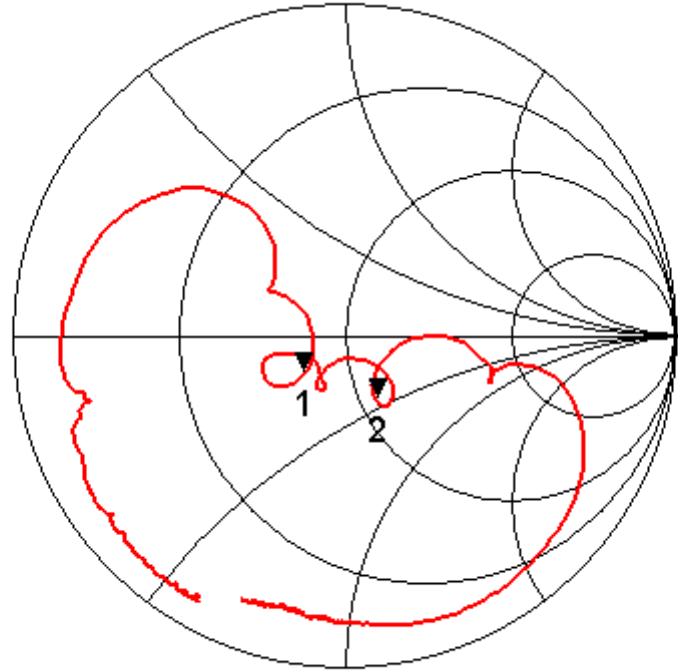
Fig.1-4 Wide-band Characteristics



MSL1

* Pb Free Part

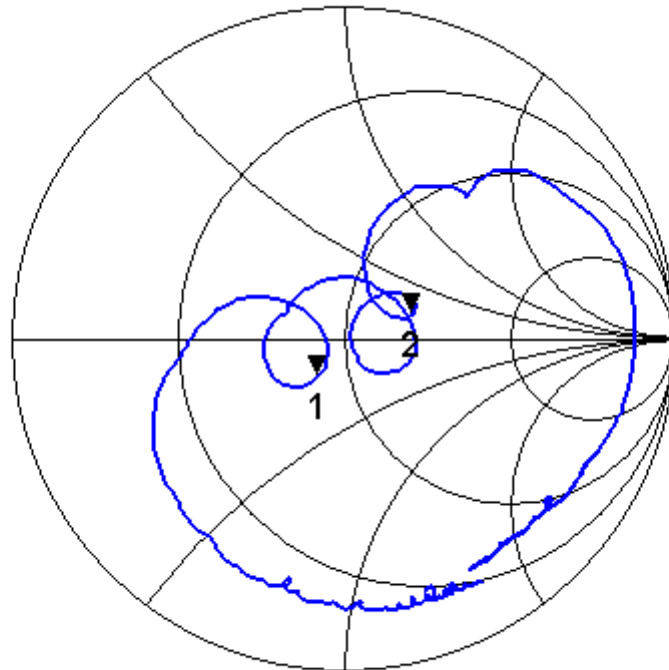
Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Tx (100/50 ohm.)	Date	March 31, 2010
Part Number	FAR-F6KB-1G8800-B4GS	Version 2.1b	



Mk1: 1850.5
 $S_{11} = 0.748 - j 0.186$
 Mk2: 1909.5
 $S_{11} = 1.112 - j 0.464$

v

Fig.1-5 Output Impedance (unbalance)



Mk1: 1850.5
 $S_{22} = 0.820 - j 0.201$
 Mk2: 1909.5
 $S_{22} = 1.476 + j 0.227$

Fig.1-6 Input Impedance (balance)



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Tx (100/50 ohm,)	Date	March 31, 2010
Part Number	FAR-F6KB-1G8800-B4GS	Version 2.1b	

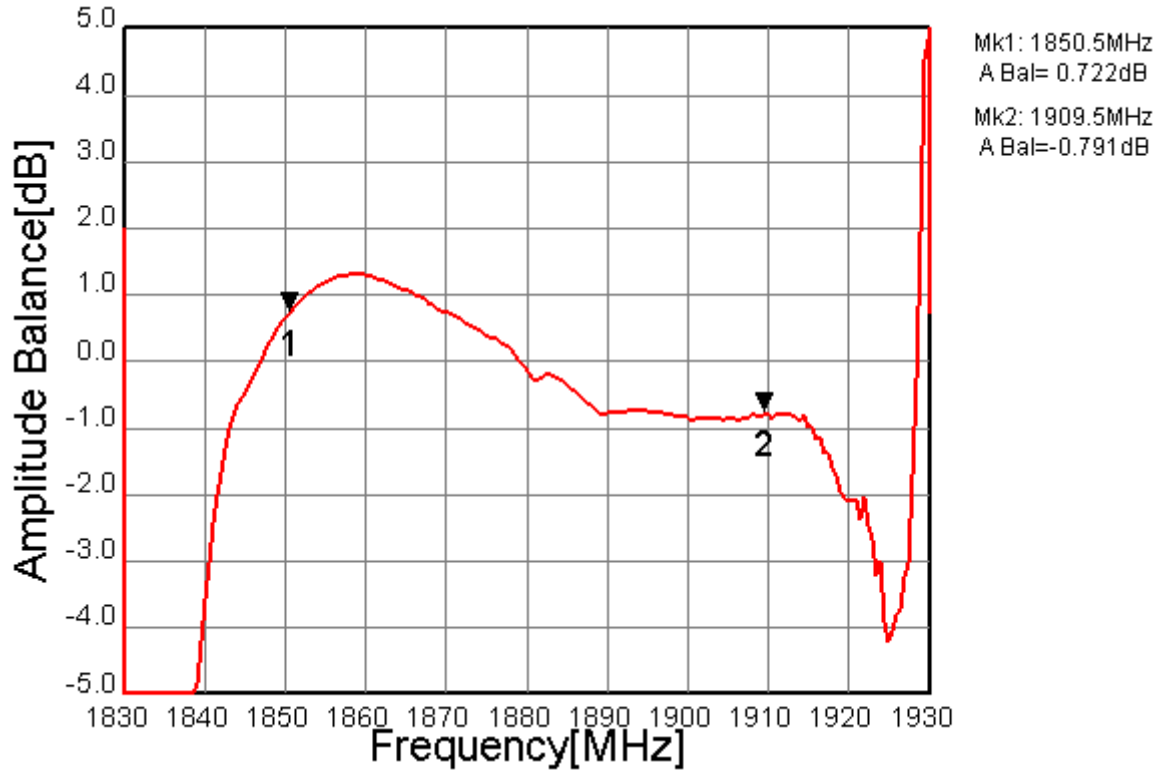


Fig.1-7 Amplitude Balance

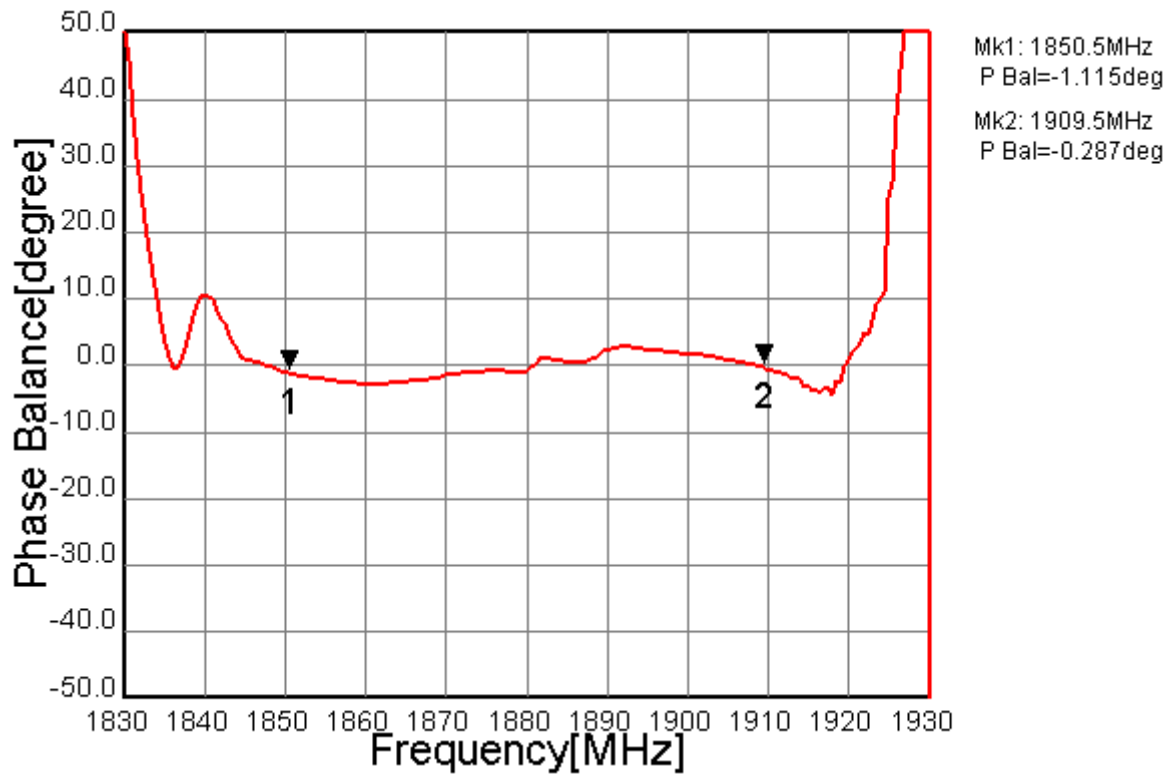


Fig.1-8 Phase Balance