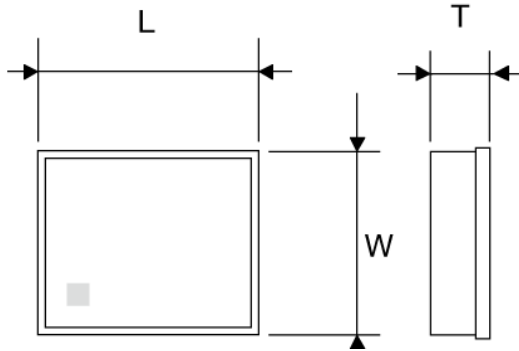


# SAW Filter

## FAR-F5KB-881M50-B4ED



### ■ Features

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

### ■ Products characteristics table

Temperature Range	-30 to +85°C
Band(3GPP)	B5
Band(3GPP2)	BC0
Use	WCDMA / CDMA
Transmitting / Receiving	Rx Filter
Insertion Loss	1.5dB
Attenuation	61dB
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

2015.02.05

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	CDMA Rx (50/100ohm)	Date	March 31, 2010
Part Number	FAR-F5KB-881M50-B4ED	Version 3.0d	

Table 1. Electrical specifications

Passband: 869 ~ 894 MHz

Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	869~894	-	1.5	2.2	dB	
Ripple	869~894	-	0.5	1.2	dB	
Attenuation	DC~824	50	72	-	dB	
	824~849	45	61	-	dB	
	914~960	25	34	-	dB	
	960~2000	40	55	-	dB	
	2000~6000	30	53	-	dB	
VSWR (Input)	869~894	-	1.5	2.0	-	
VSWR (Output)	869~894	-	1.6	2.0	-	
Amplitude balance ( S <sub>21</sub> /S <sub>31</sub>  )	869~894	-1.0	-0.1/+0.2	+1.0	dB	
Phase balance ((∠S <sub>21</sub> -∠S <sub>31</sub> )+180)	869~894	-10	-0.4/+3.8	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	100			Ohm	
Input Power	869~894	-	-	+13	dBm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ. x 1.0typ. x 0.5max.			mm	



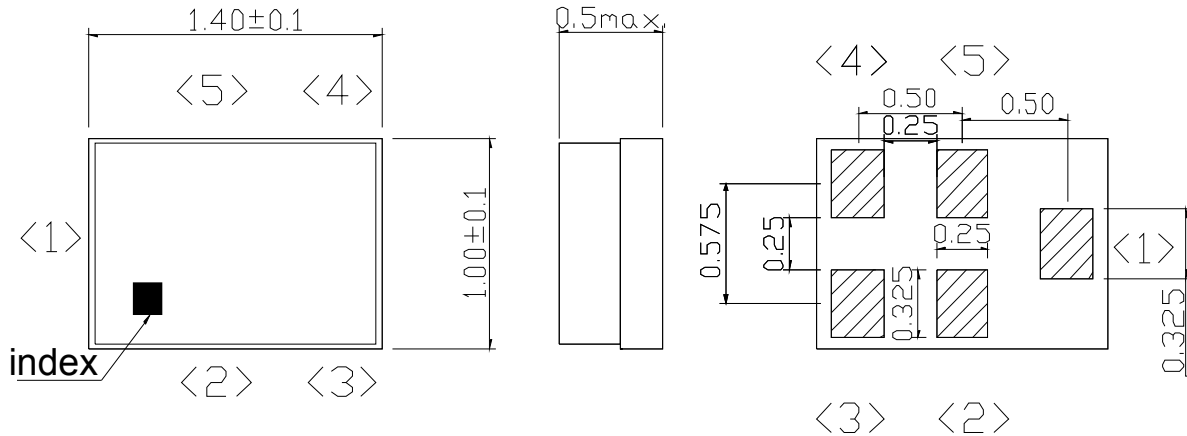
MSL1

\* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	CDMA Rx (50/100ohm)	Date	March 31, 2010
Part Number	FAR-F5KB-881M50-B4ED	Version 3.0d	

### Dimensions

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

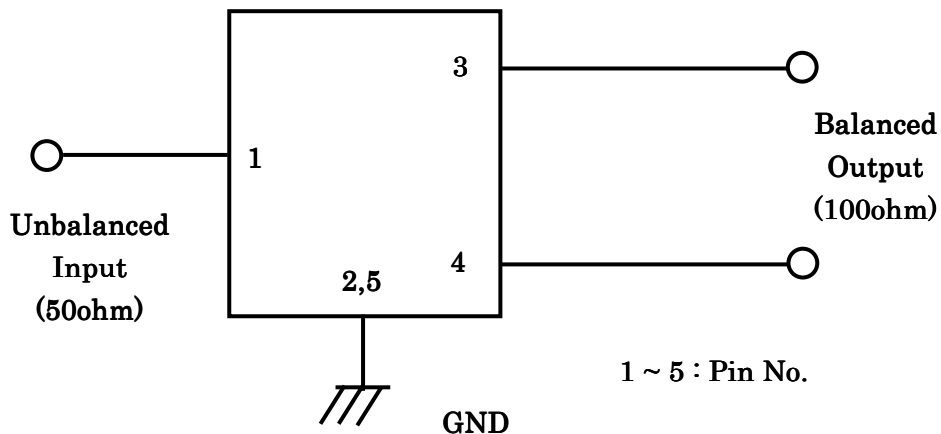


Unit : mm

### Pin Configuration

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

### Test Condition





MSL1

\* Pb Free Part

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System	CDMA Rx (50/100ohm)	Date	March 31, 2010
Part Number	FAR-F5KB-881M50-B4ED	Version 3.0d	

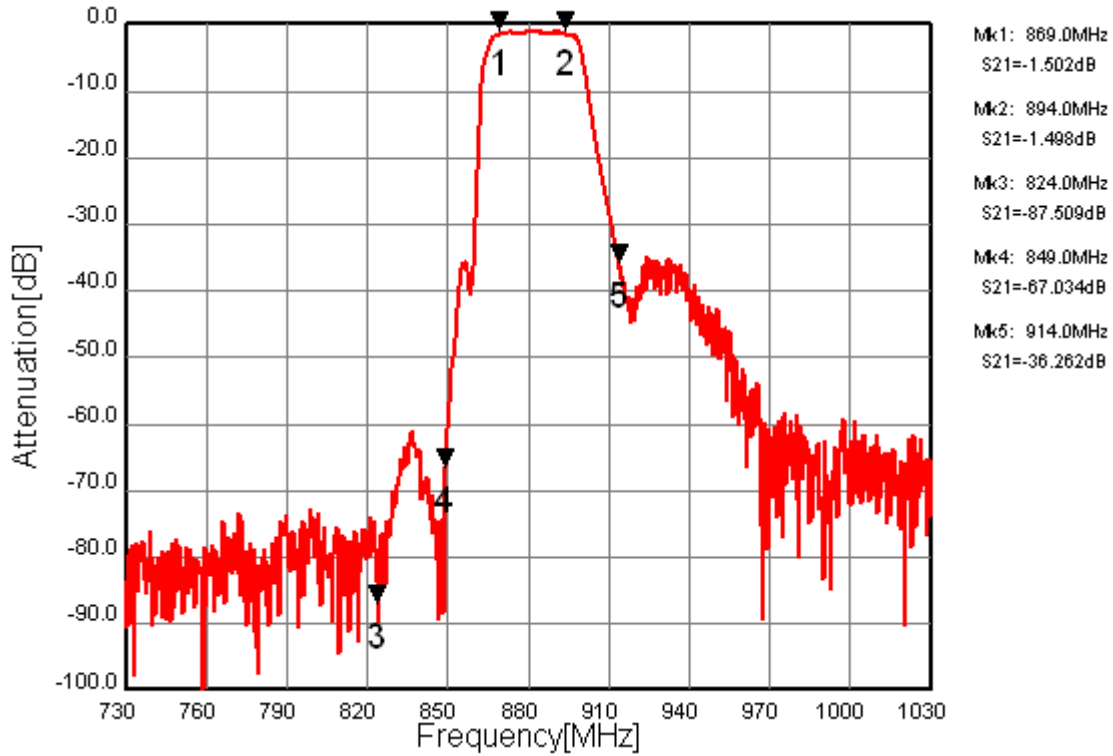


Fig.1 Pass-band Characteristics

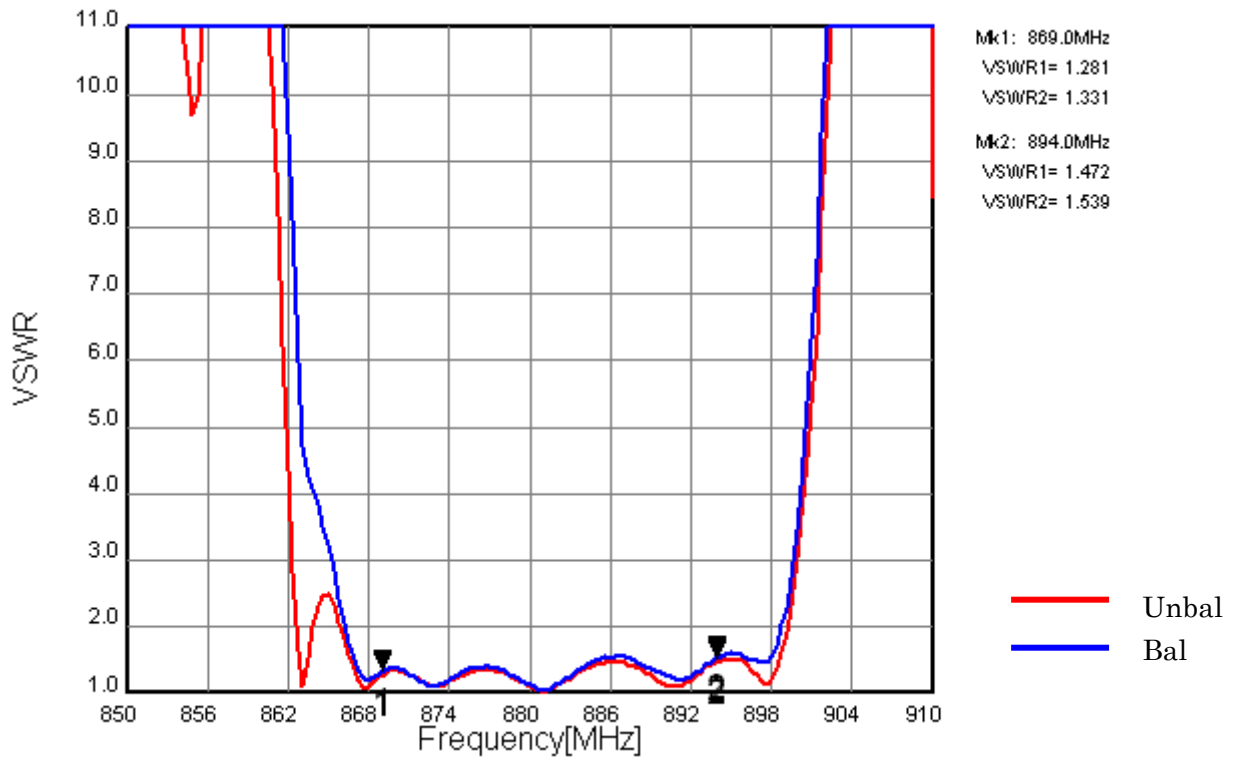


Fig.2 VSWR



MSL1

\* Pb Free Part

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Part Number	FAR-F5KB-881M50-B4ED	Version 3.0d	

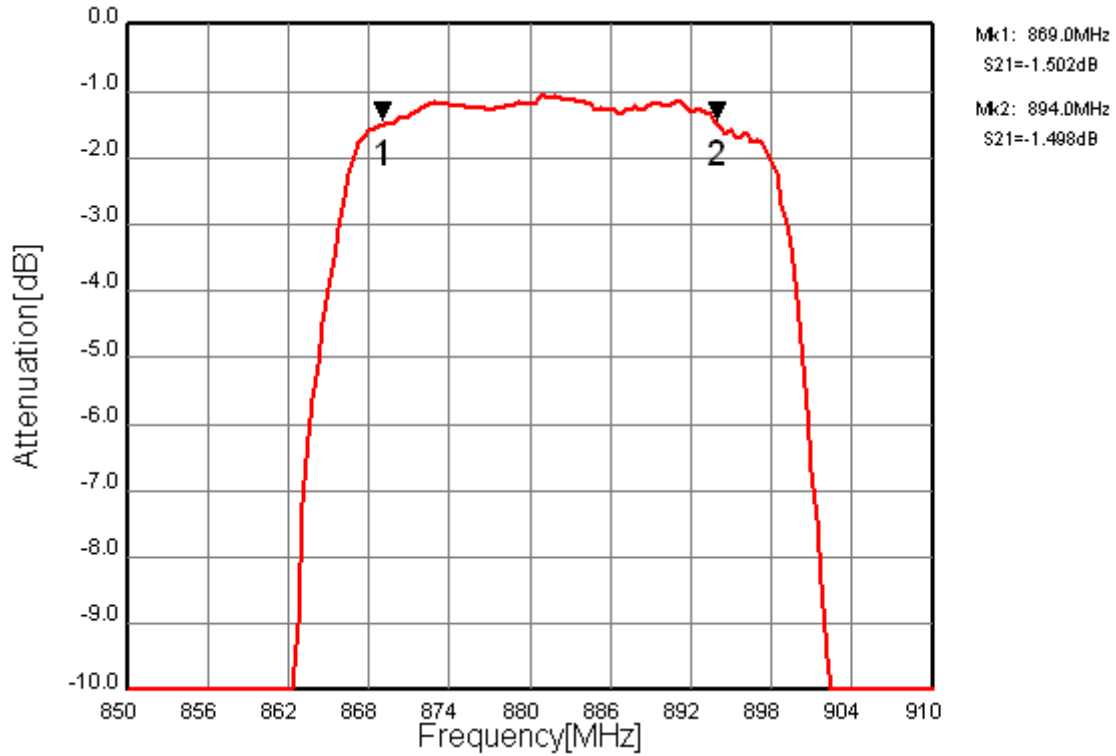


Fig.3 In-band Characteristics

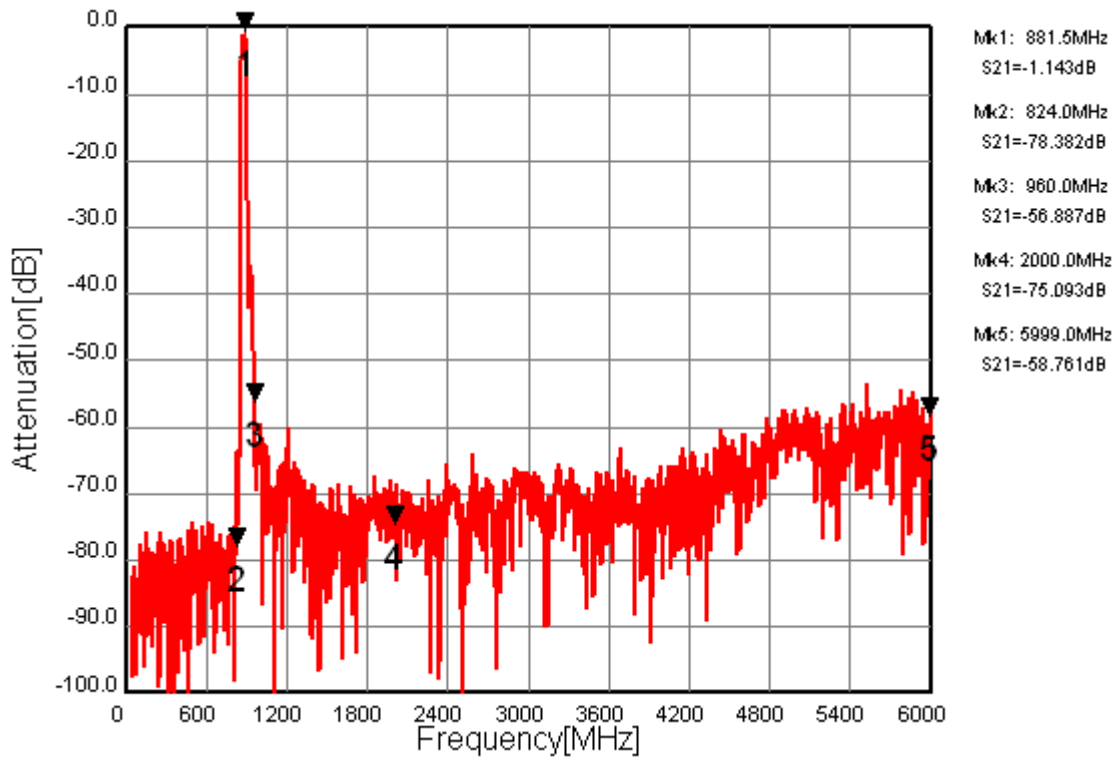


Fig.4 Wide-band Characteristics



MSL1

\* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	CDMA Rx (50/100ohm)	Date	March 31, 2010
Part Number	FAR-F5KB-881M50-B4ED	Version 3.0d	

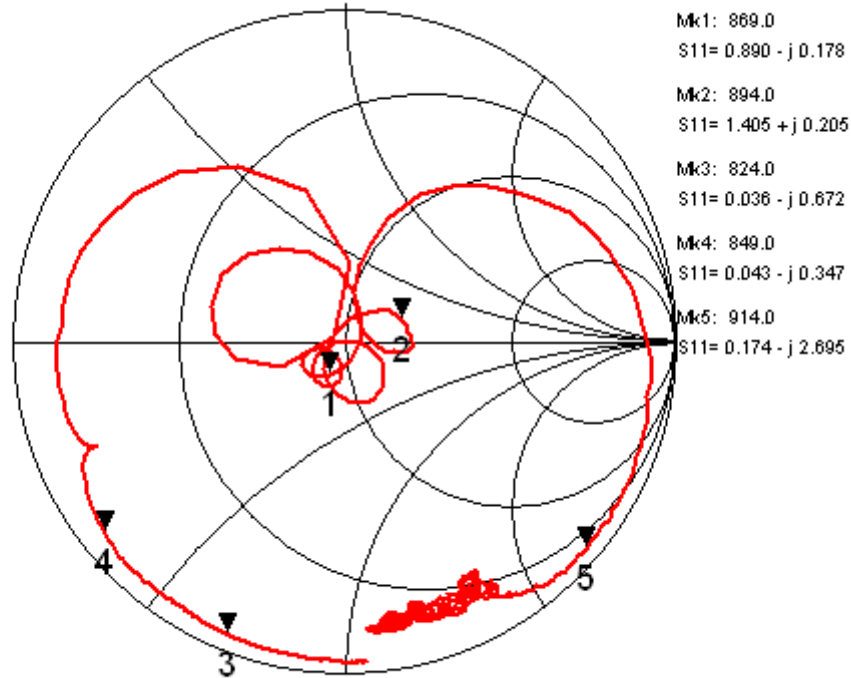


Fig.5 Input Impedance (Unbalance)

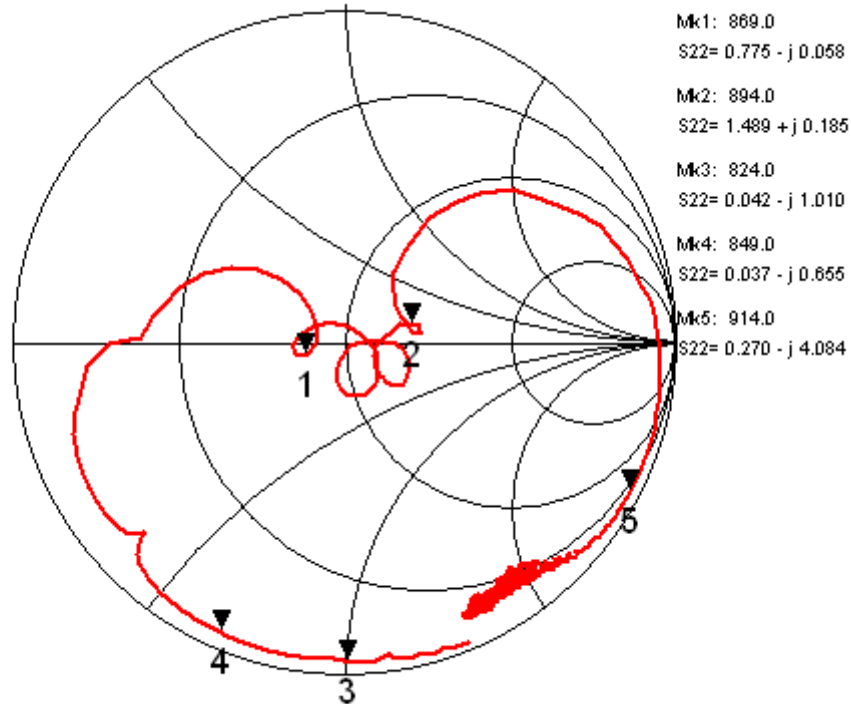


Fig.6 Output Impedance (Balance)



MSL1

\* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	CDMA Rx (50/100ohm)	Date	March 31, 2010
Part Number	FAR-F5KB-881M50-B4ED	Version 3.0d	

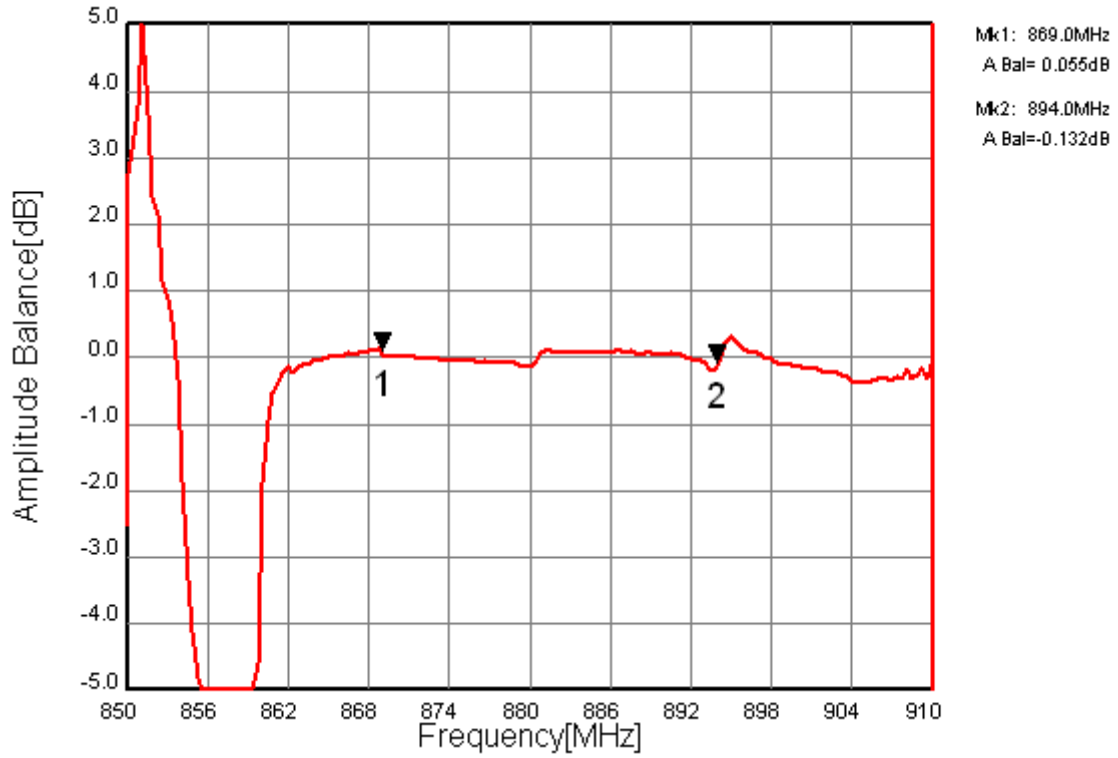


Fig.7 Amplitude Balance

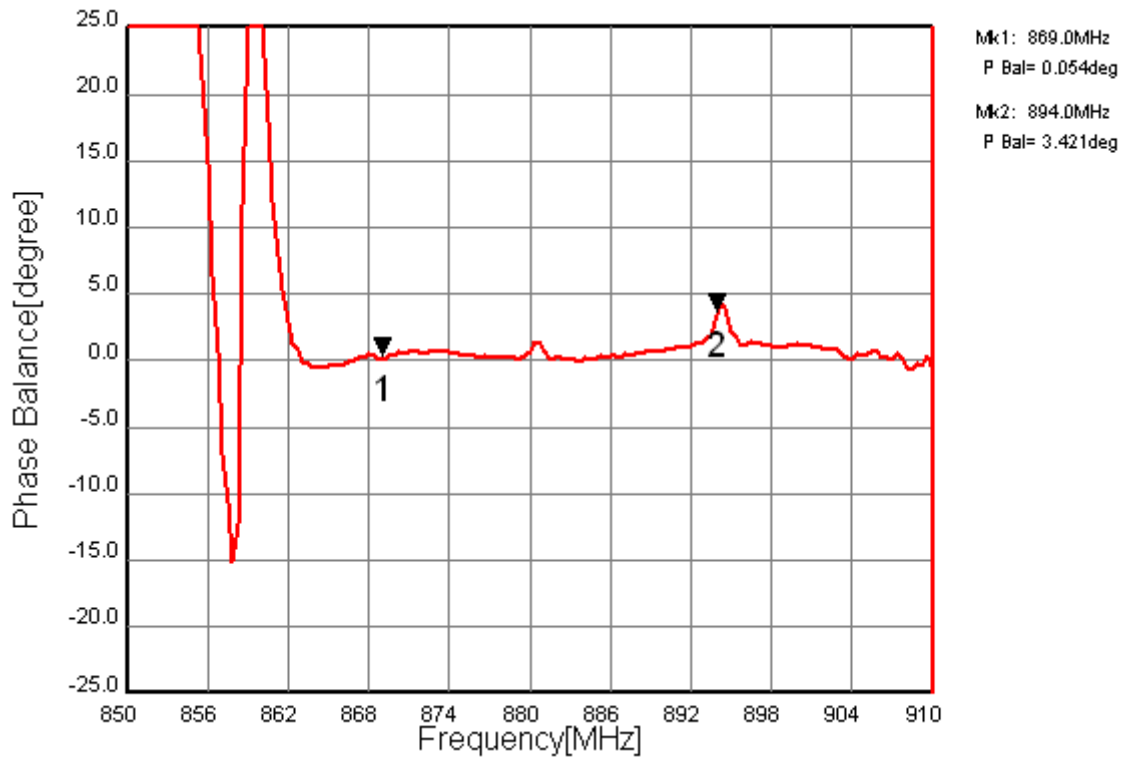


Fig.8 Phase Balance

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