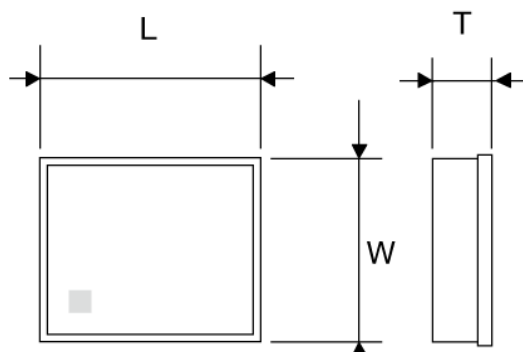


SAW Filter

FAR-F6KB-1G9600-B4GP



■ 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)	B2
Band(3GPP2)	BC1
Use	WCDMA / CDMA
Transmitting / Receiving	Rx Filter
Insertion Loss	2.1dB
Attenuation	23dB
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	PCS-Rx (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G9600-B4GP	Version 1.2a	

Table 1-1. Electrical specifications

Passband: 1930.6 ~ 1989.4 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930.6~1989.4 MHz	-	2.1	3.0	dB	+25+/-2°C
		-	-	3.5		
Ripple	1930.6~1989.4 MHz	-	0.8	2.5	dB	
Absolute attenuation	DC~1850.6 MHz	30	38	-	dB	
	1850.6~1909.4 MHz	20	23	-	dB	+25+/-2°C
		15	-	-	dB	
	2020~2070 MHz	20	24	-	dB	
	2070~2200 MHz	24	28	-	dB	
	2200~3000 MHz	30	36	-	dB	
3000~6000 MHz	25	42	-	dB		
VSWR (Input)	1930.6~1989.4 MHz	-	1.9	2.3	-	
VSWR (Output)	1930.6~1989.4 MHz	-	1.8	2.3	-	
Amplitude Balance S21 / S31	1930.6~1989.4 MHz	-1.5	-0.8/+1.1	+1.5	dB	
Phase Balance (Φ S21- Φ S31)-180	1930.6~1989.4 MHz	-10	-4/+4	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	100//15nH			Ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ.x1.0typ.x0.5max.			mm	



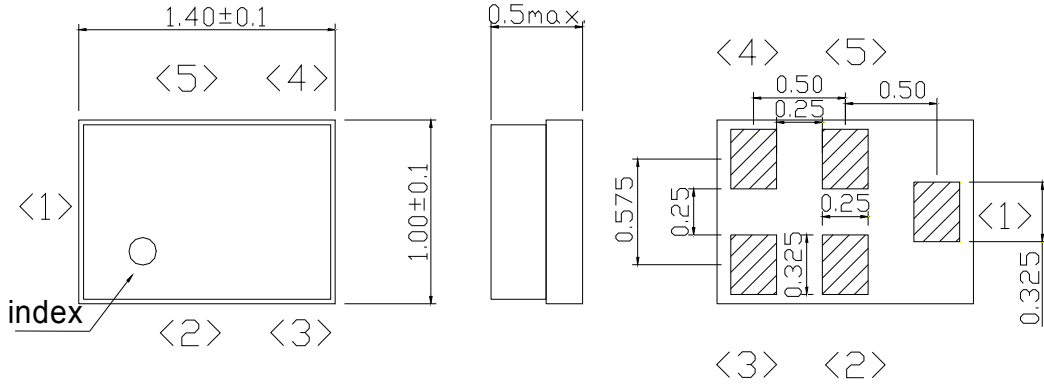
MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Rx (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G9600-B4GP	Version 1.2a	

Dimension

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

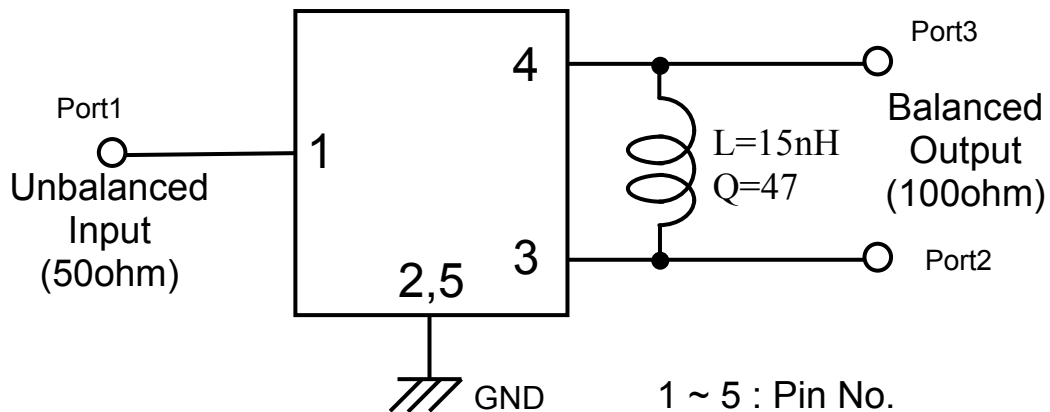


Unit: mm

Pin Configuration

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

Evaluation Circuit





MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Rx (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G9600-B4GP	Version 1.2a	

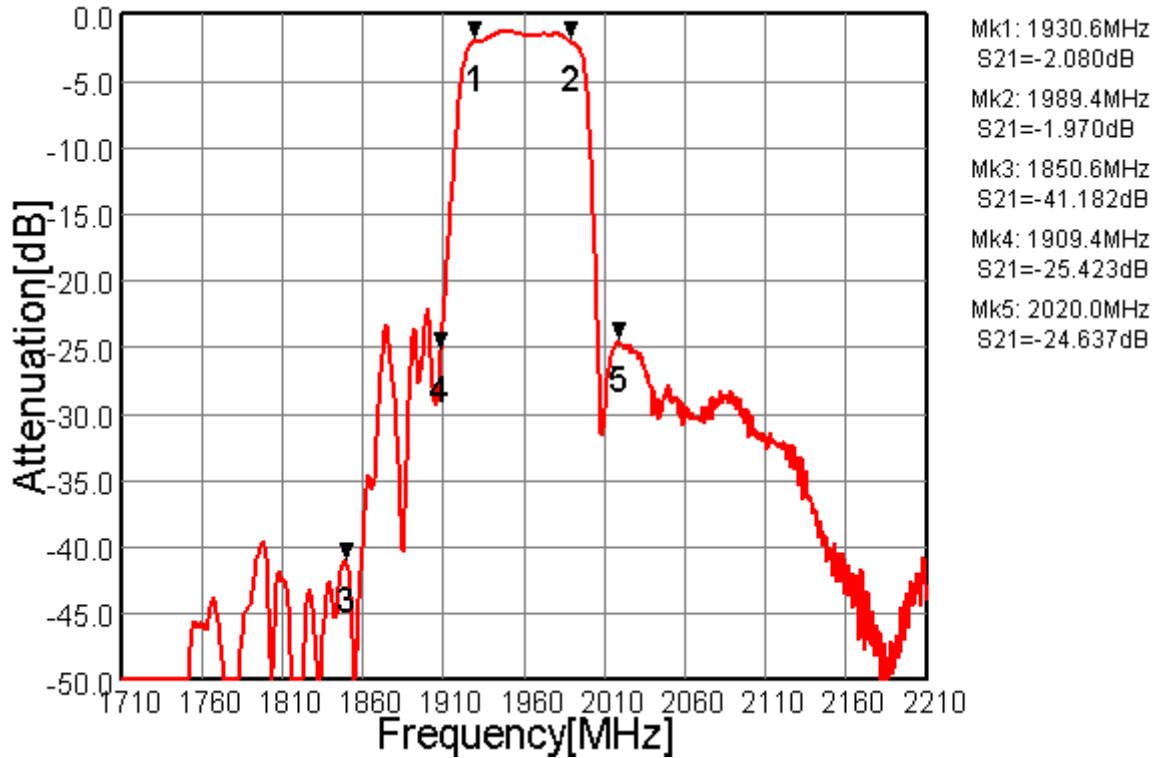


Fig.1 Pass-band Characteristics

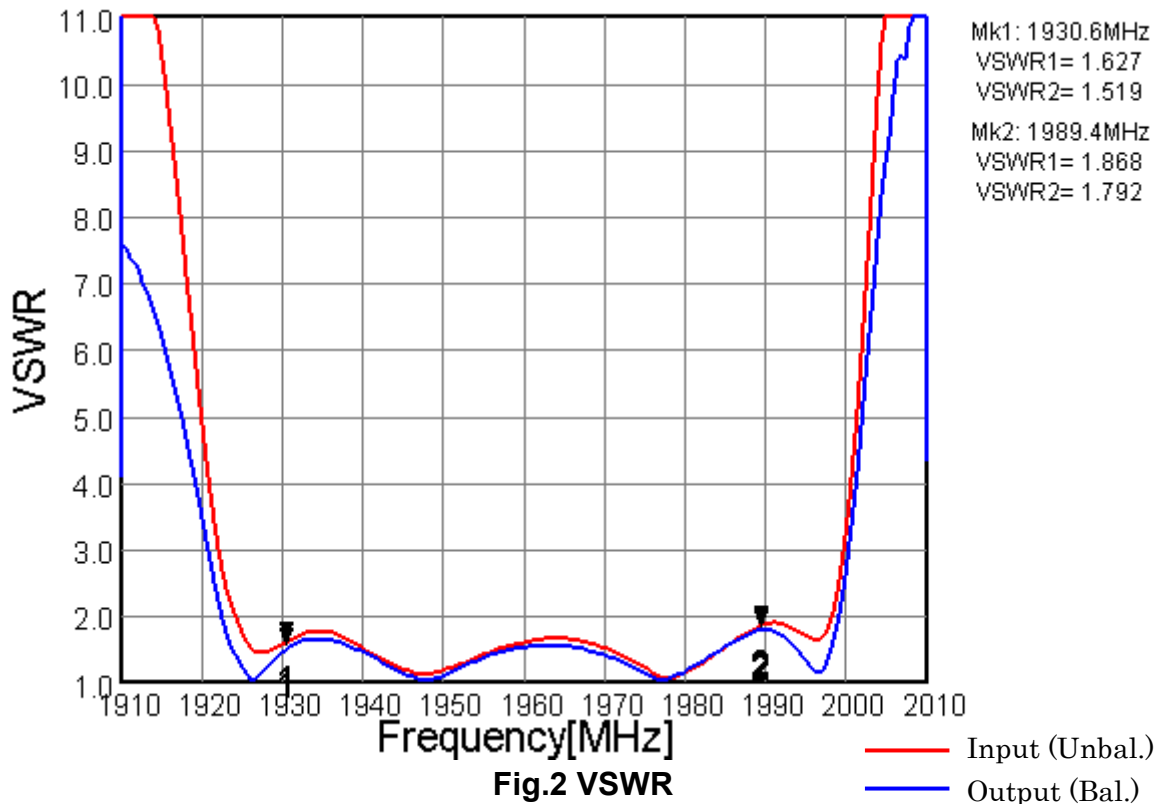


Fig.2 VSWR



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Rx (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G9600-B4GP	Version 1.2a	

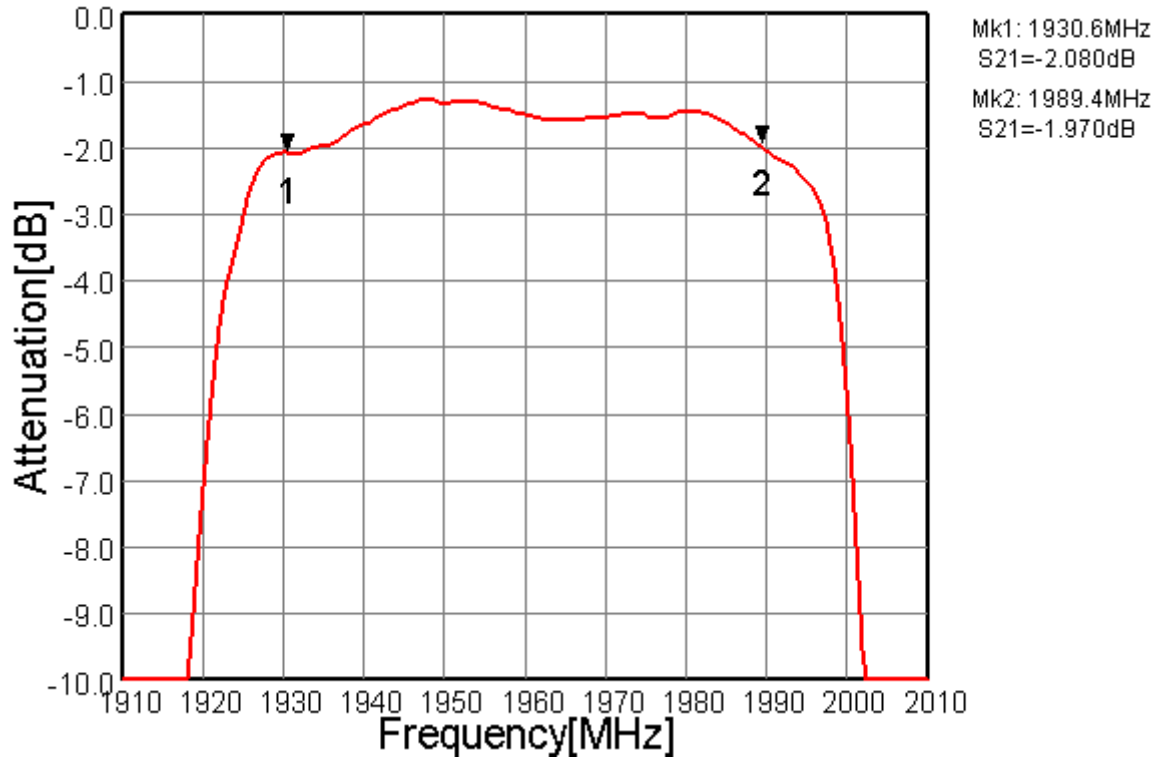


Fig.3 In-band Characteristics

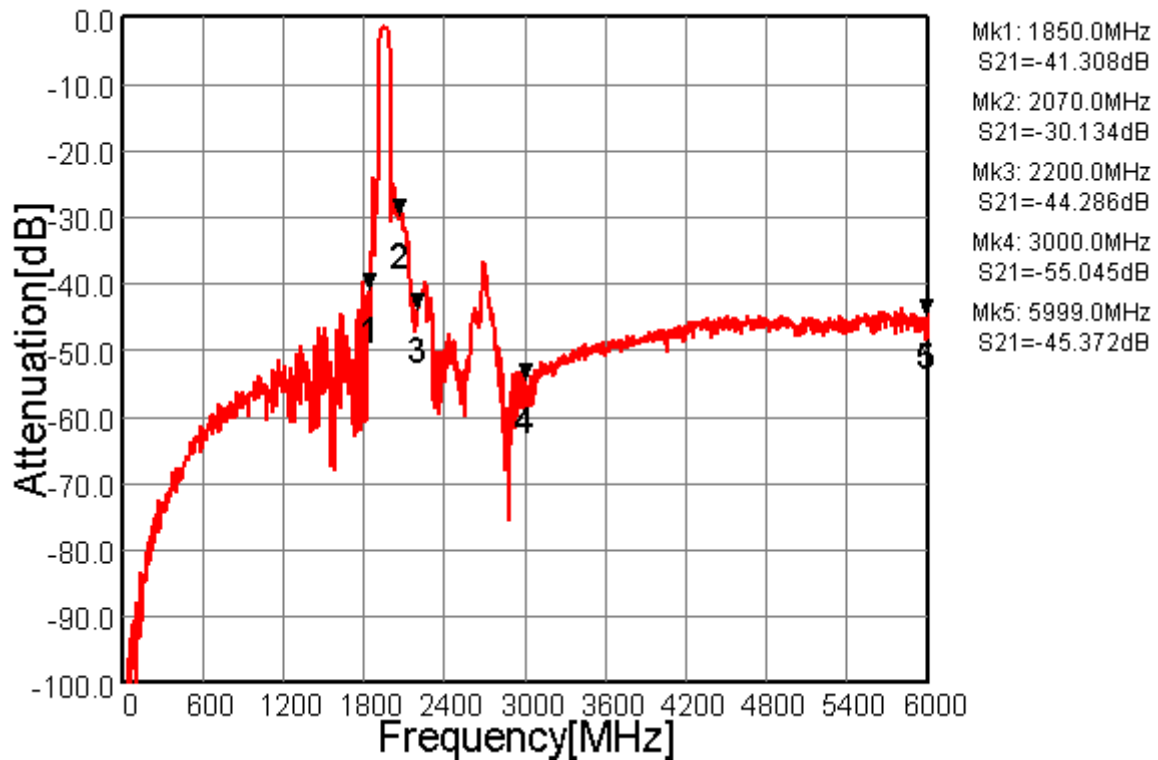


Fig.4 Wide-band Characteristics



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Rx (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G9600-B4GP	Version 1.2a	

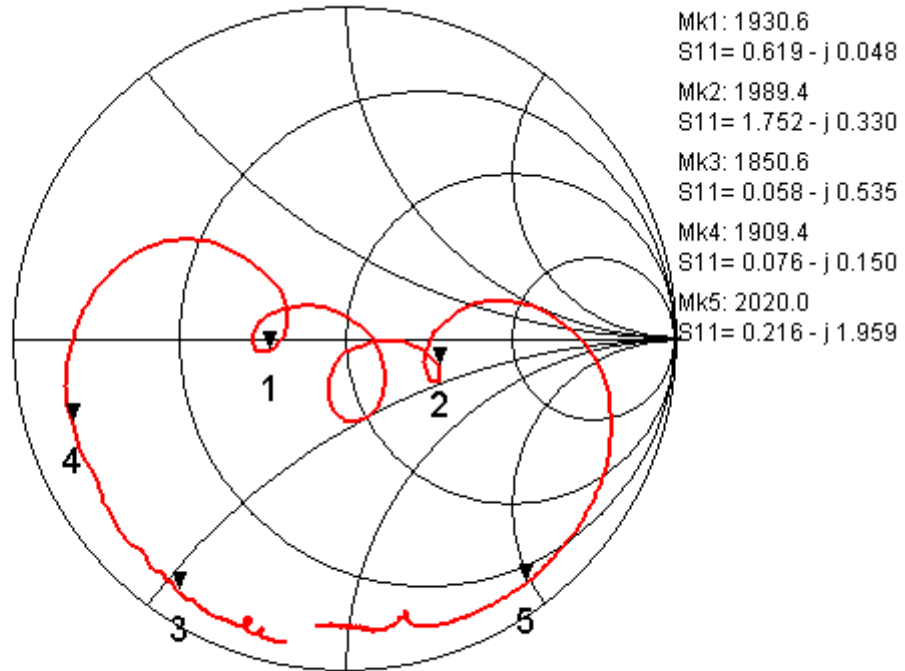


Fig.5 Input Impedance (Unbalance)

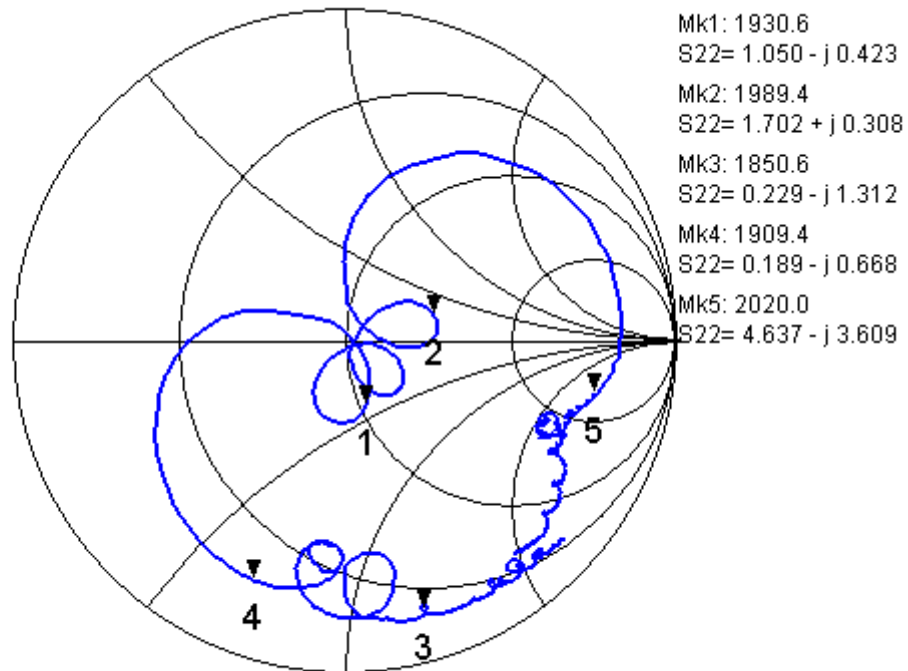


Fig.6 Output Impedance (Balance)



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	PCS-Rx (50/100 ohm)	Date	March 31, 2010
Part Number	FAR-F6KB-1G9600-B4GP	Version 1.2a	

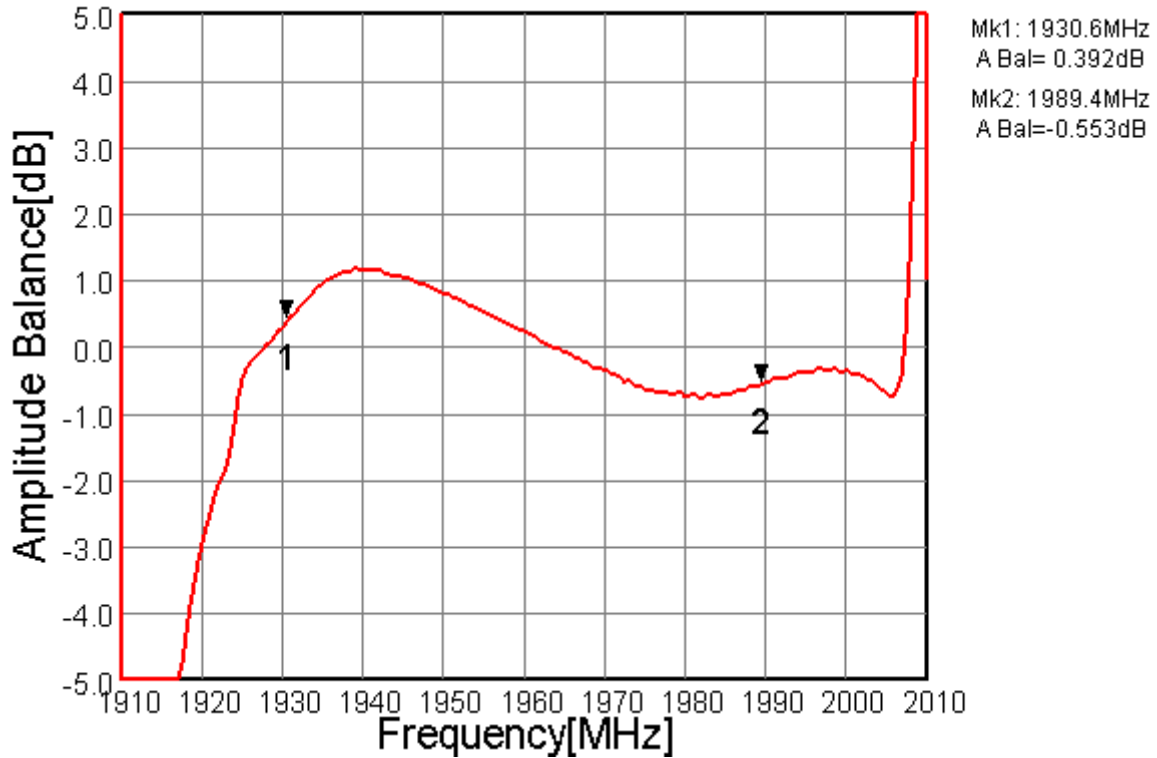


Fig.7 Amplitude Balance

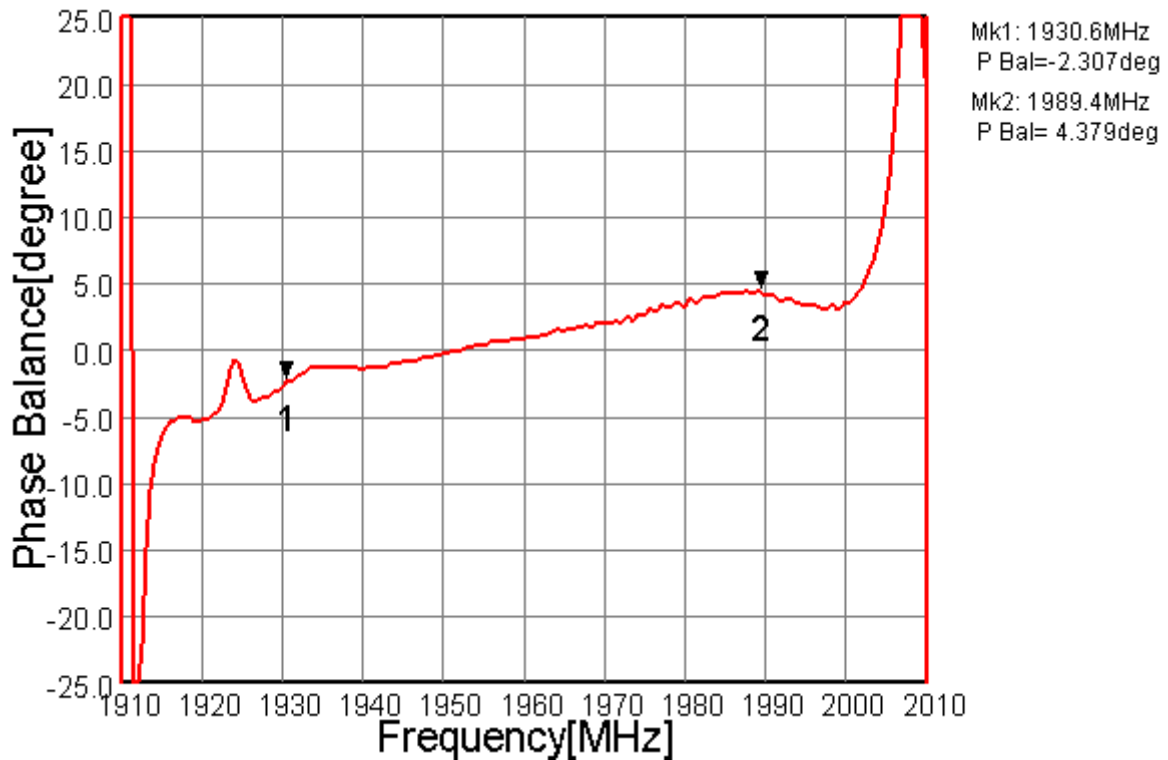


Fig.8 Phase Balance

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