



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	



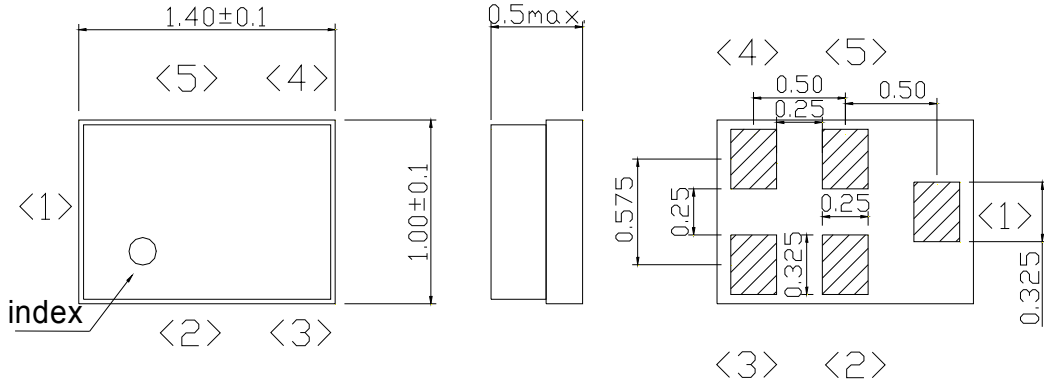
MSL1

* 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.

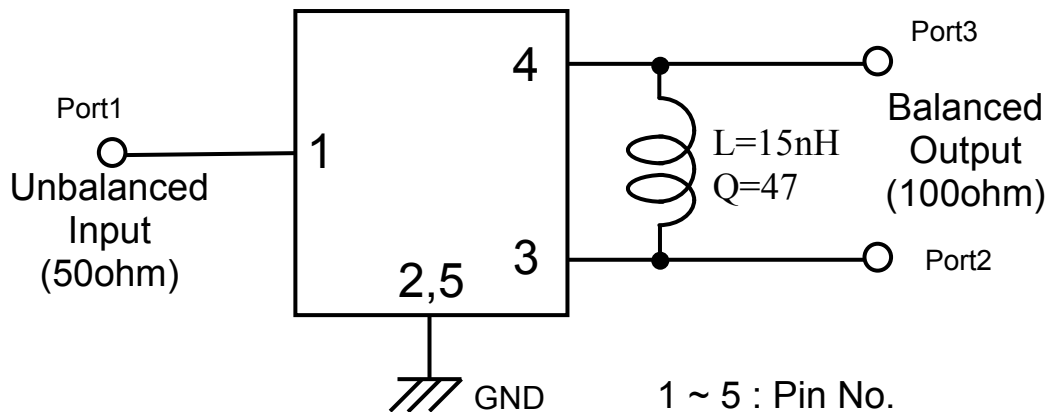


Unit: mm

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	

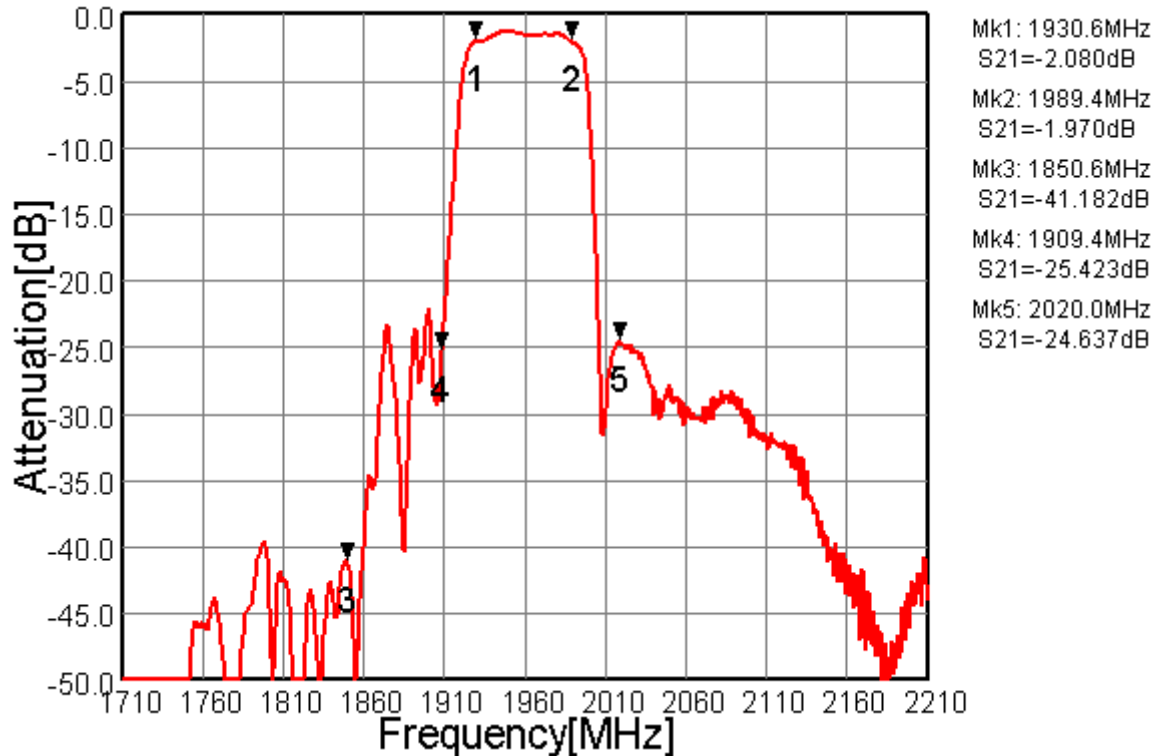


Fig.1 Pass-band Characteristics

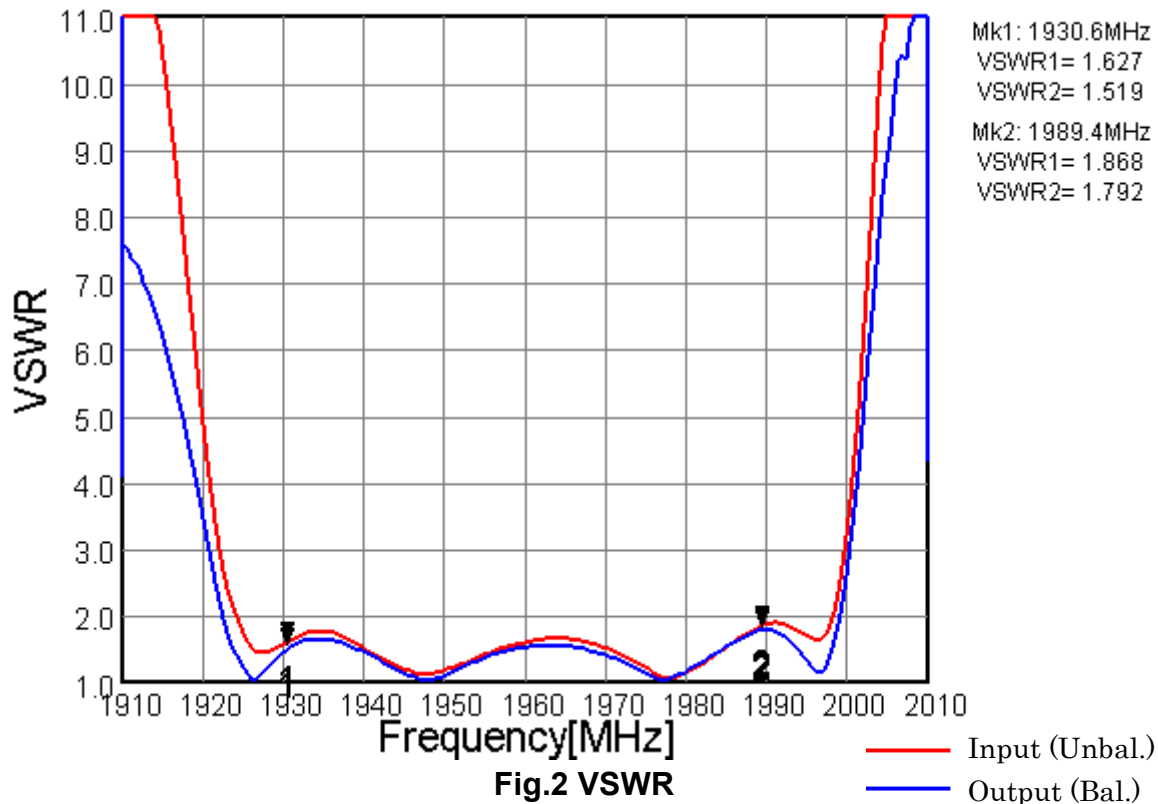


Fig.2 VSWR



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	

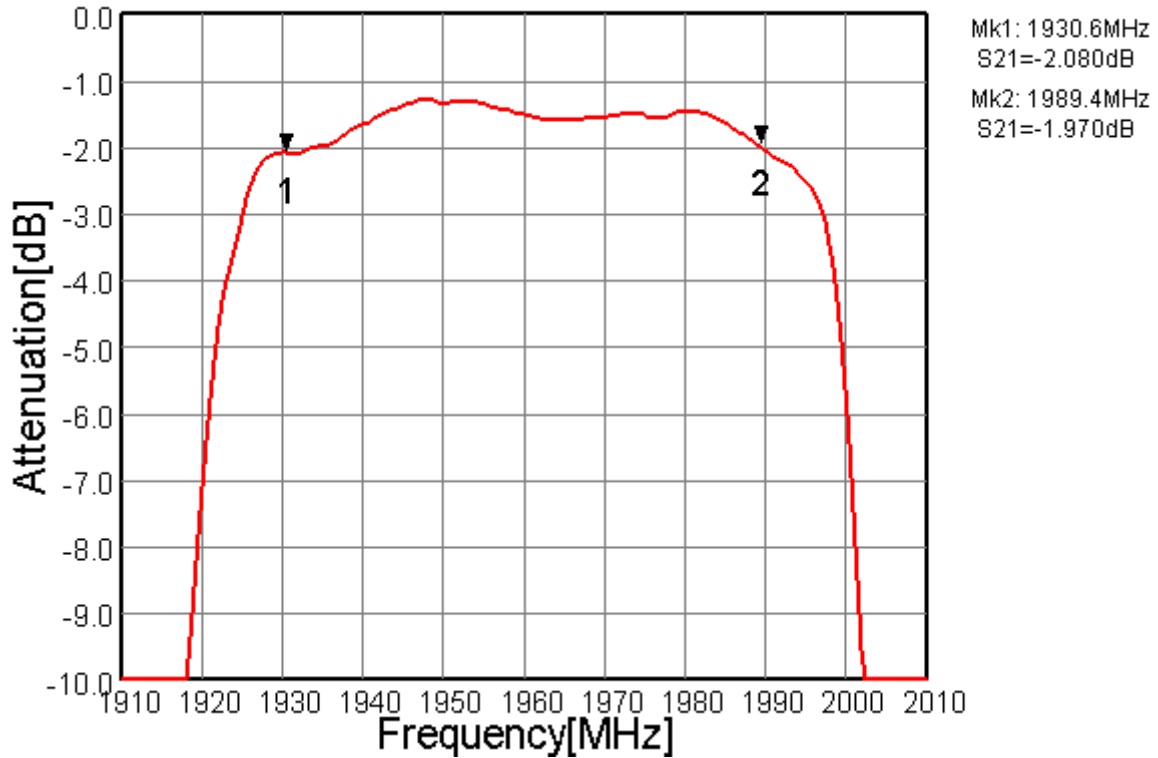


Fig.3 In-band Characteristics

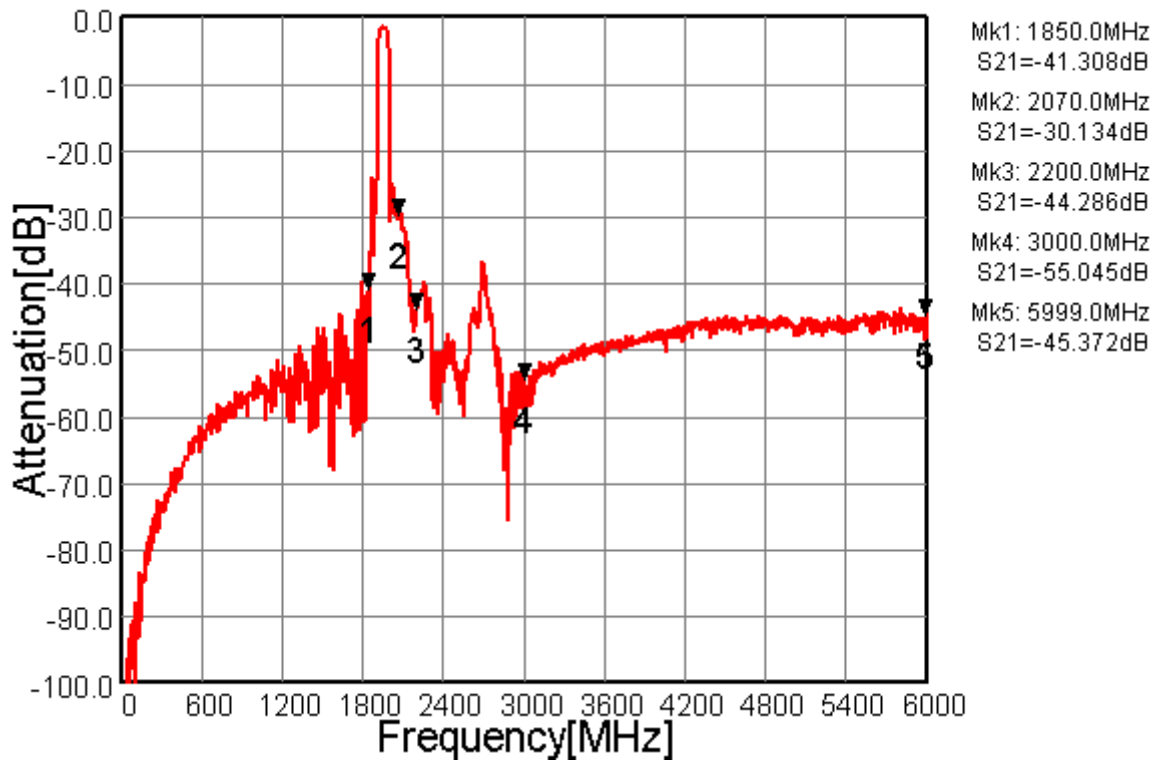


Fig.4 Wide-band Characteristics



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	

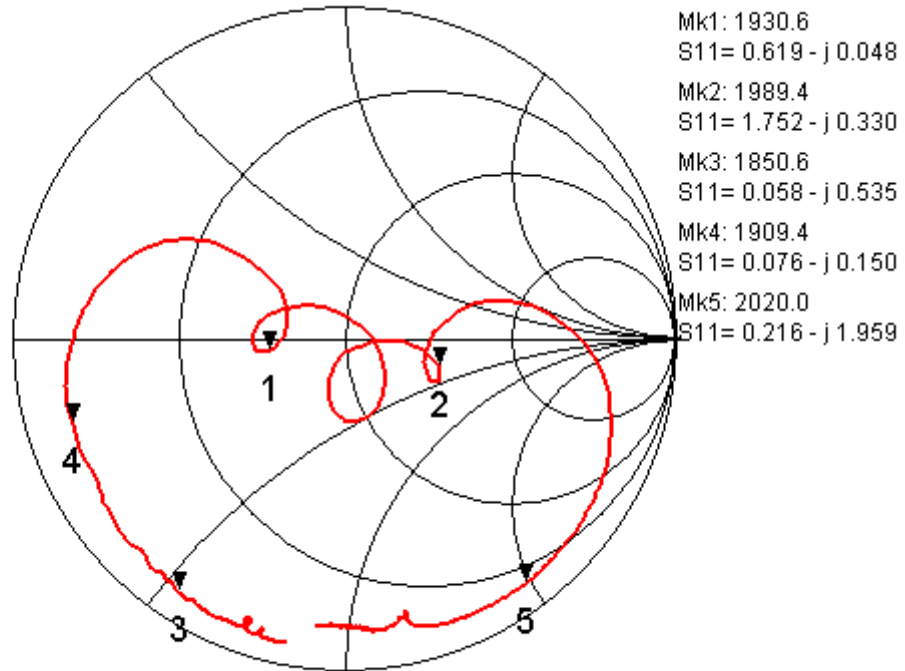


Fig.5 Input Impedance (Unbalance)

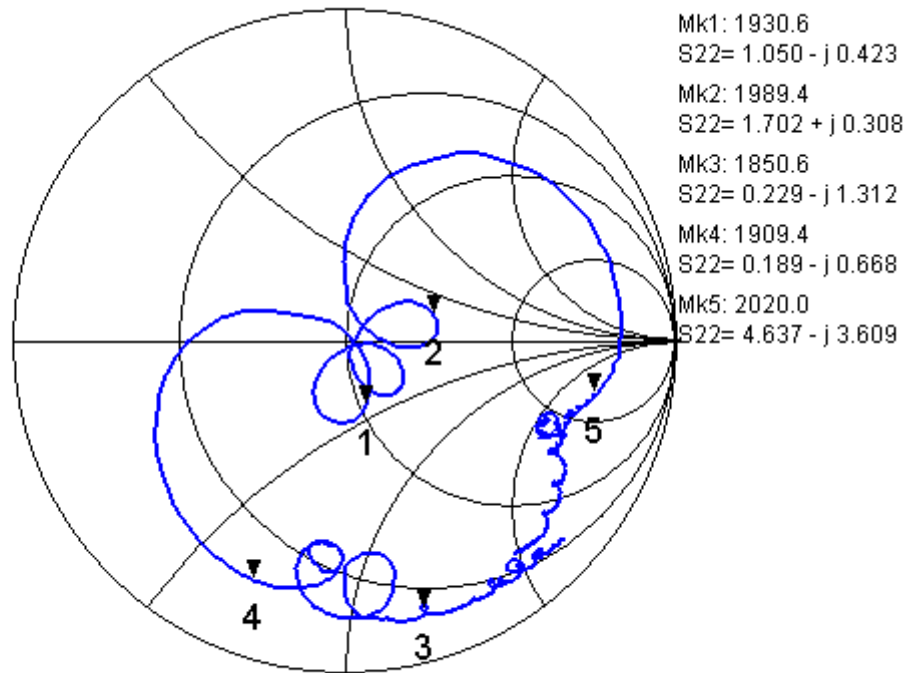


Fig.6 Output Impedance (Balance)



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	

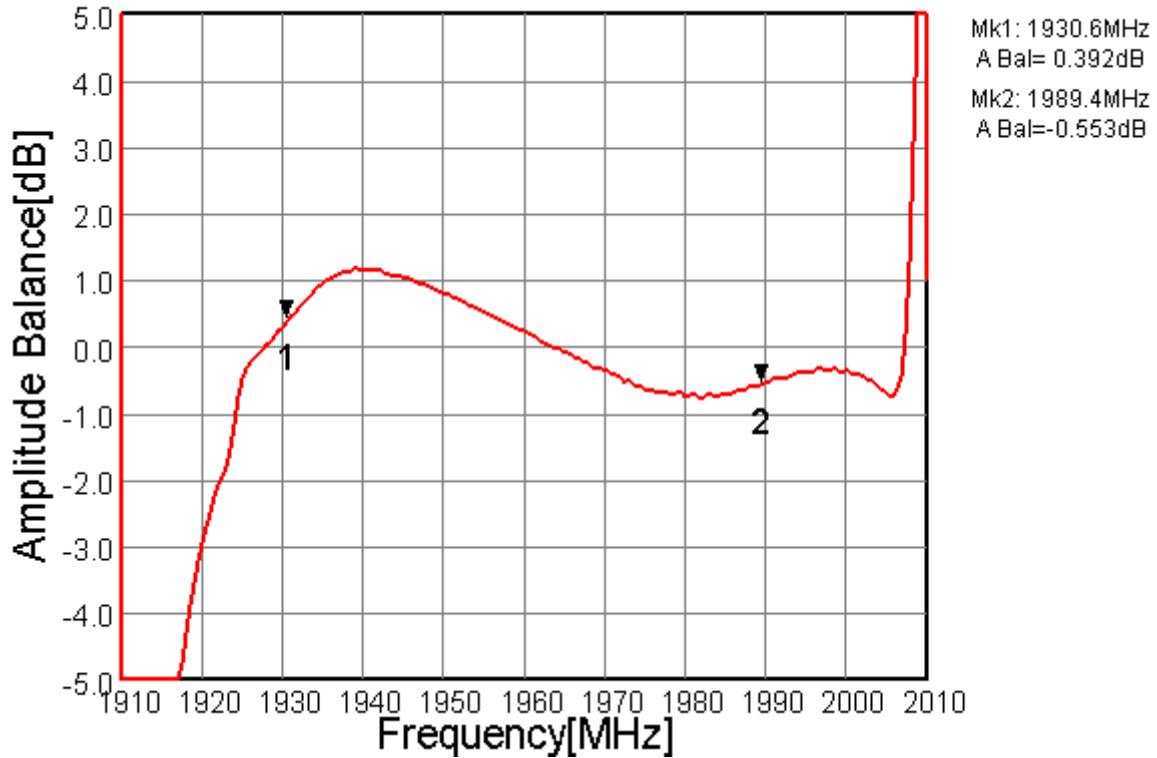


Fig.7 Amplitude Balance

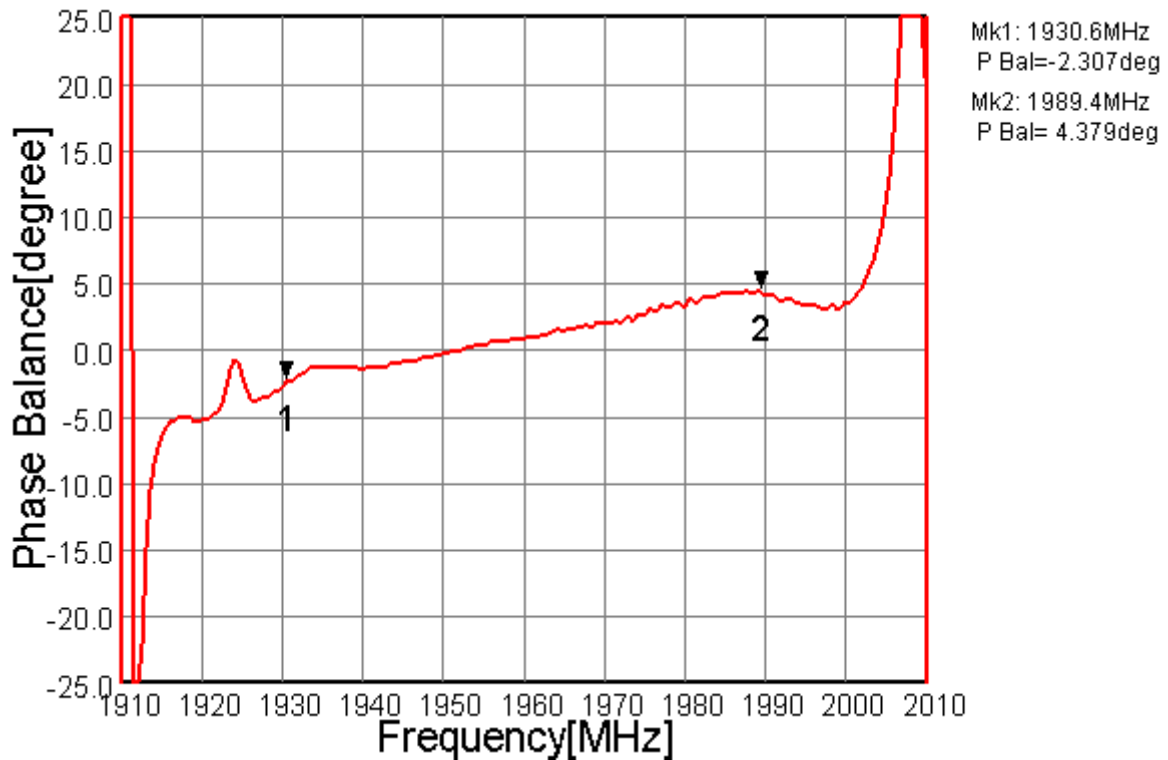


Fig.8 Phase Balance