



* Pb Free Part



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	W-CDMA I(2G) Rx	Date	March 31, 2010
Part Number	FAR-F6KB-2G1400-B4GC	Version 3.1d	

Table 1 Electrical Specification

Passband : 2110~ 2170 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	2110 ~ 2170	-	1.7	2.6	dB	
Ripple	2110 ~ 2170	-	0.3	1.4	dB	
Absolute attenuation	DC ~ 190	40	85	-	dB	
	1730 ~ 1790	30	46	-	dB	
	1920 ~ 1980	32	39	-	dB	
	2300 ~ 2360	20	28	-	dB	
	4030 ~ 4150	30	50	-	dB	
	5950~ 6130	20	45	-	dB	
	6140 ~ 6320	20	45	-	dB	
VSWR(input unbal)	2110 ~ 2170	-	1.7	2.7	-	
VSWR(output bal)	2110 ~ 2170	-	1.7	2.7	-	
Amplitude balance (S ₂₁ /S ₃₁)	2110 ~ 2170	-2	-0.3/+0.9	+2	dB	
Phase balance ((Φ S ₂₁ - Φ S ₃₁)+180)	2110 ~ 2170	-10	-3.5/+3.1	+10	deg.	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	100//10nH			ohm	
Operating temperature		-30~ +85			°C	
Device size		1.4typ. x 1.0typ. x 0.5max.			mm	



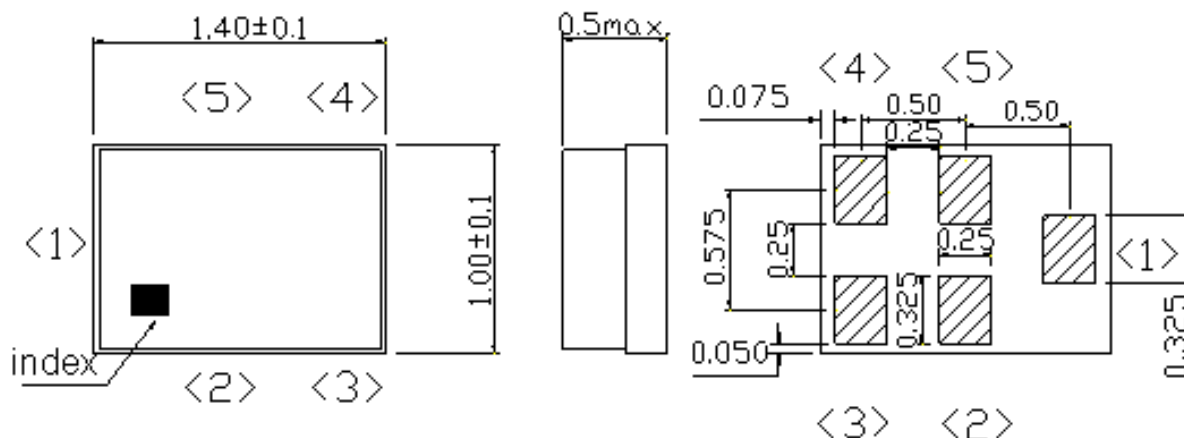
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Dimensions

Device size: 1.4mmtyp. x 1.0mmtyp. x 0.5mmmax.

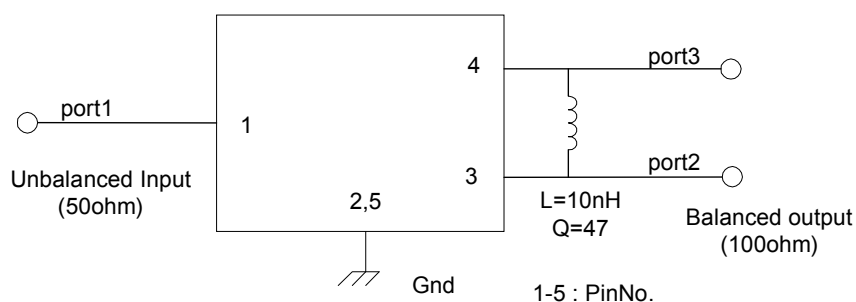


Unit : mm

Pin Configuration

Pin No.	Pin name	Description
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced pin
4	OUT	Balanced pin
5	GND	Ground

Evaluation Circuit



1-5 : PinNo.



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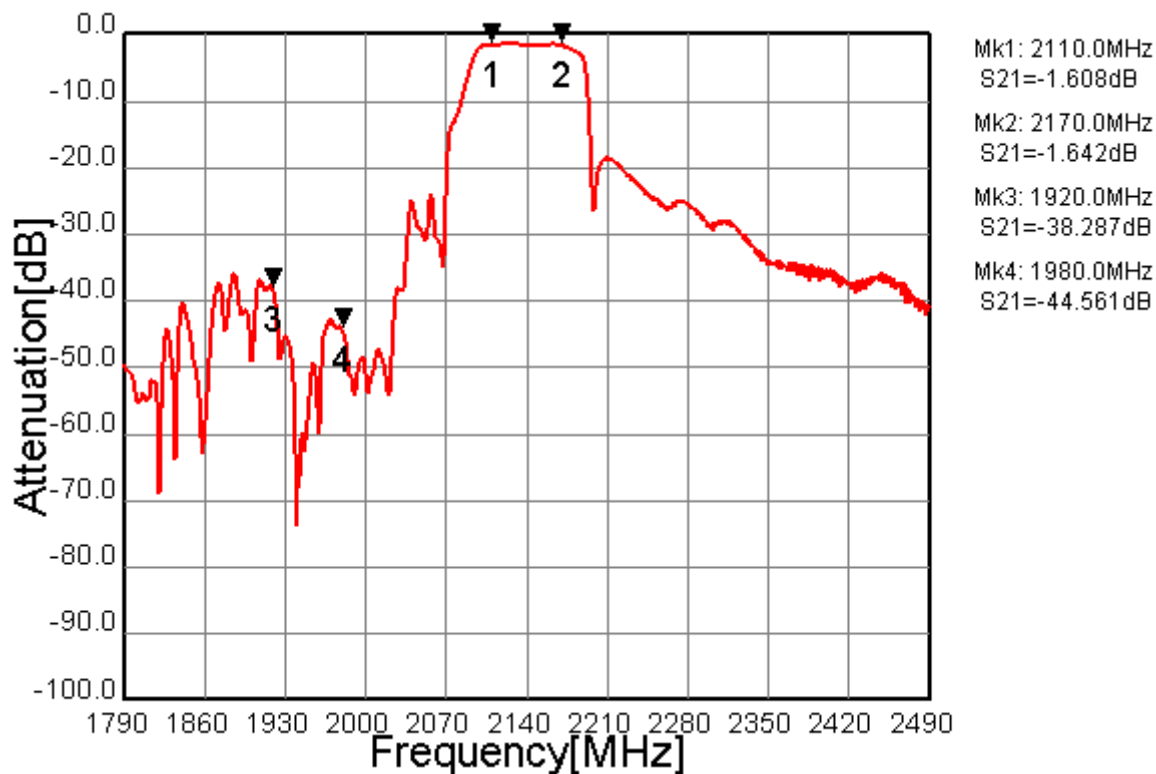


Fig.1 Pass-band Characteristics

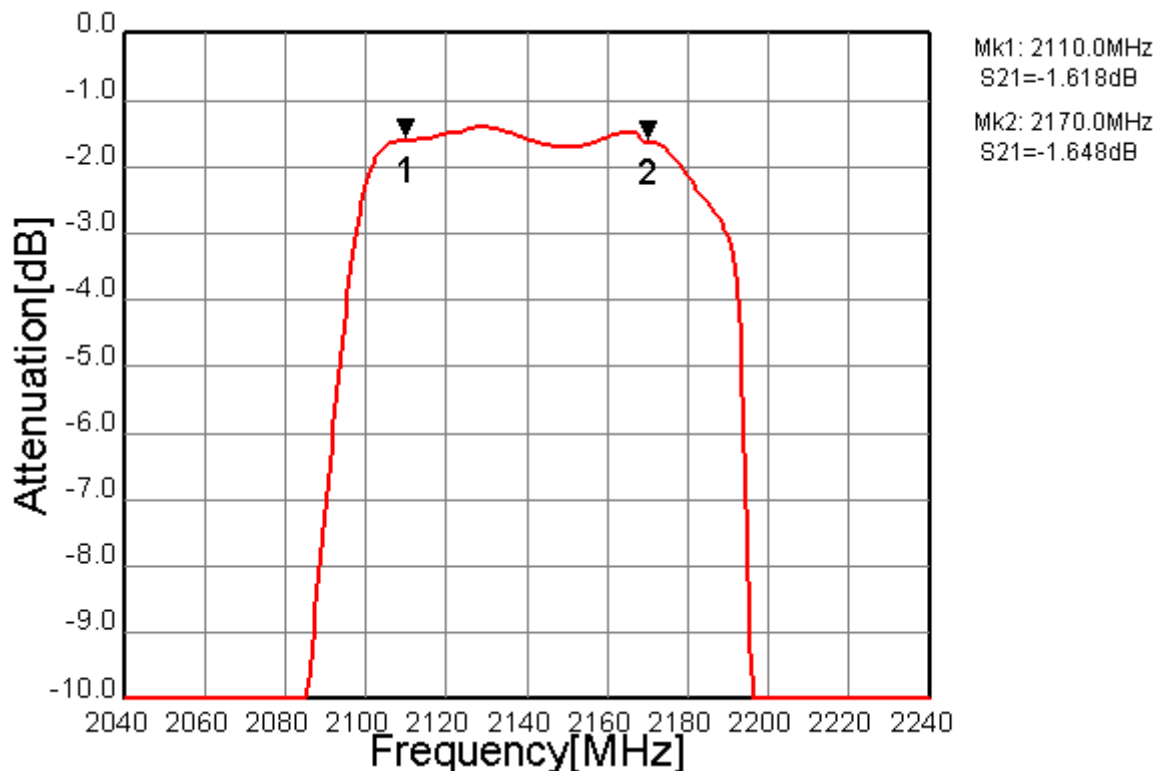


Fig.2 In-band Characteristics



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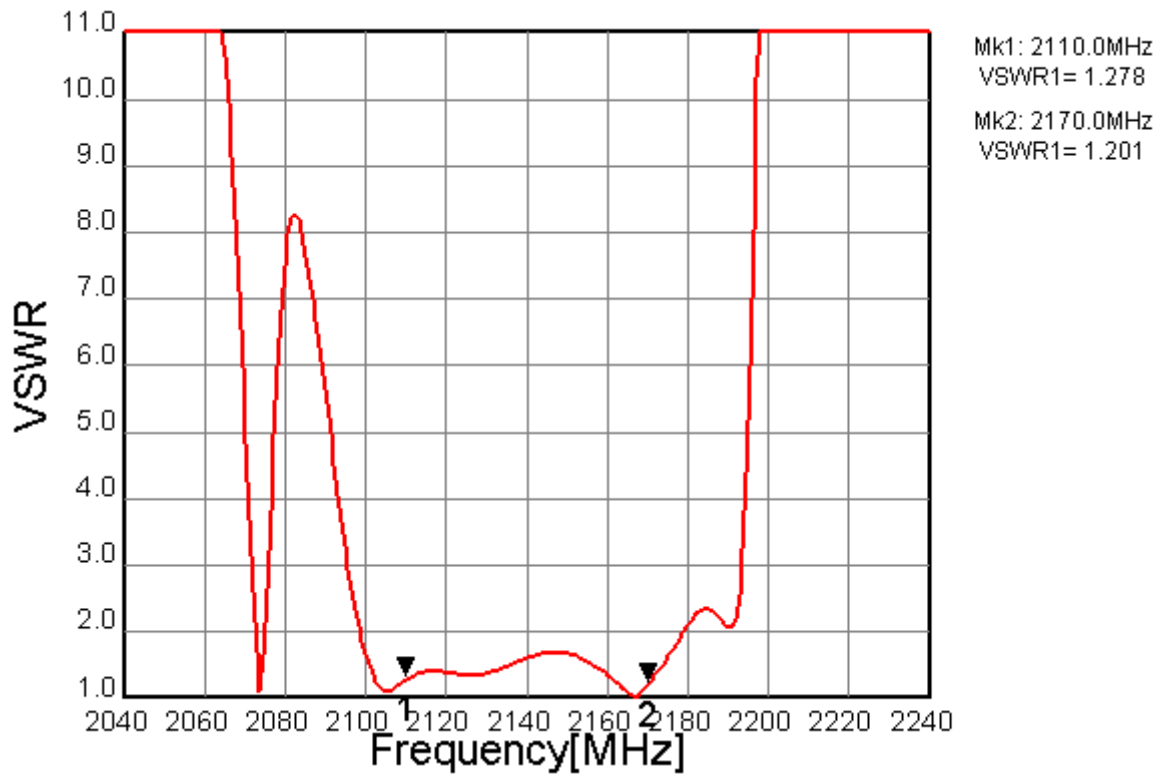


Fig.3 VSWR (unbal)

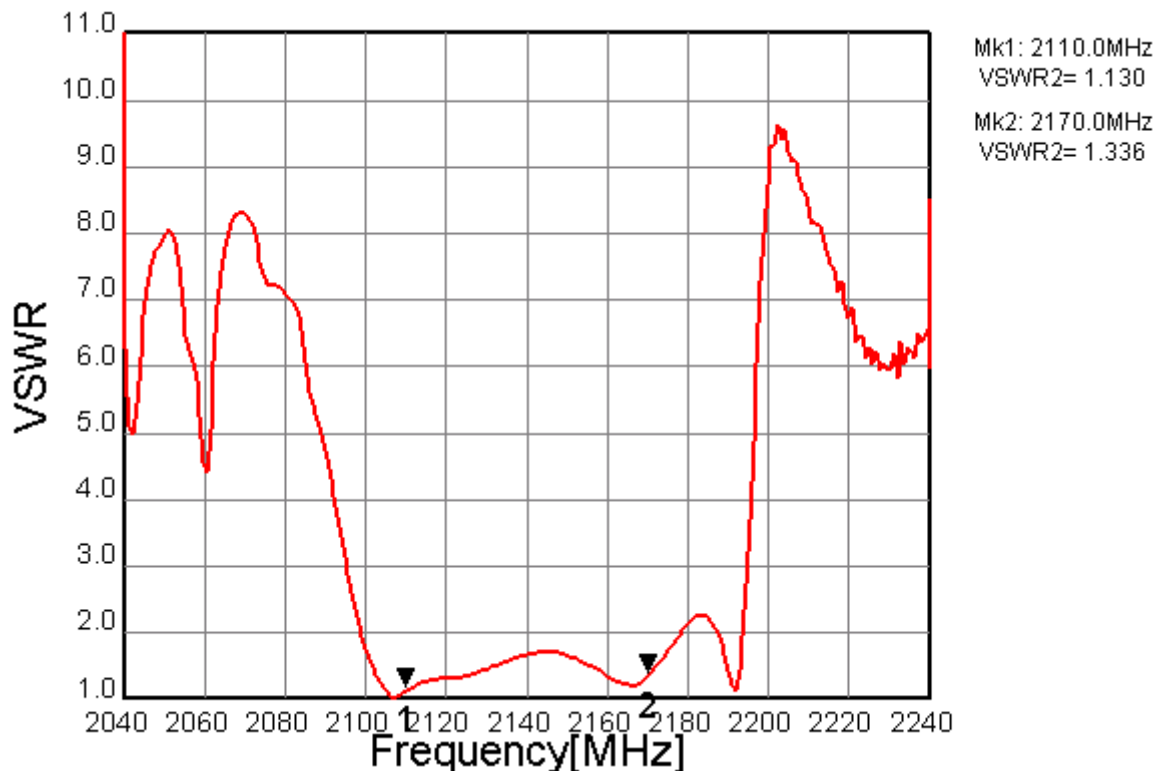


Fig.4 VSWR(bal)



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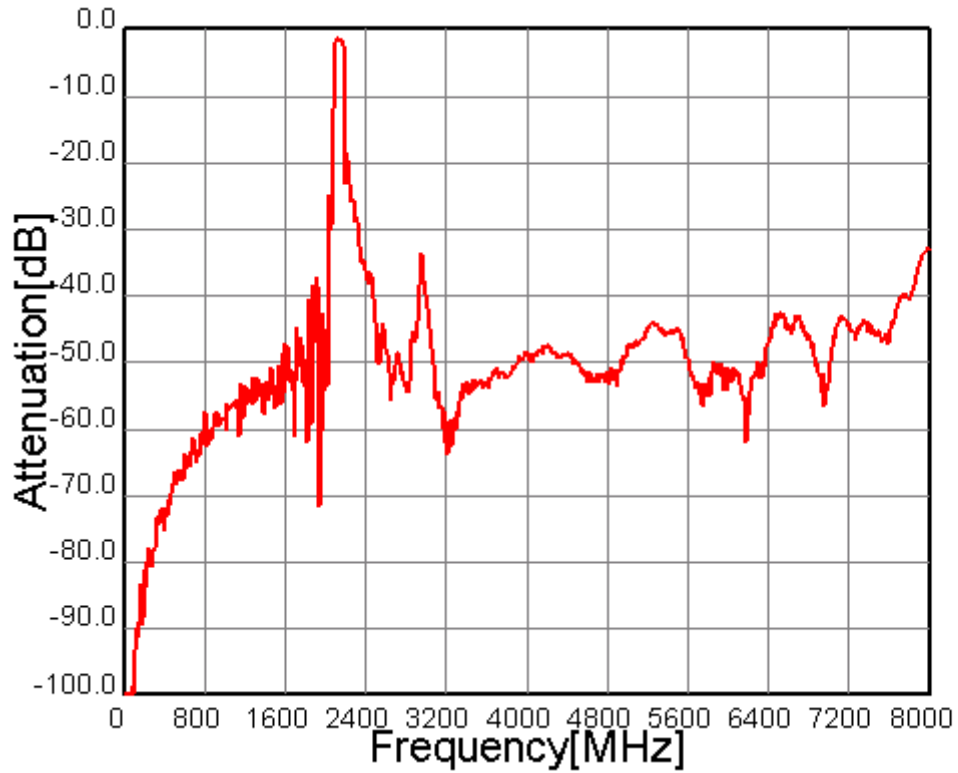


Fig.5 Wide-band Characteristics

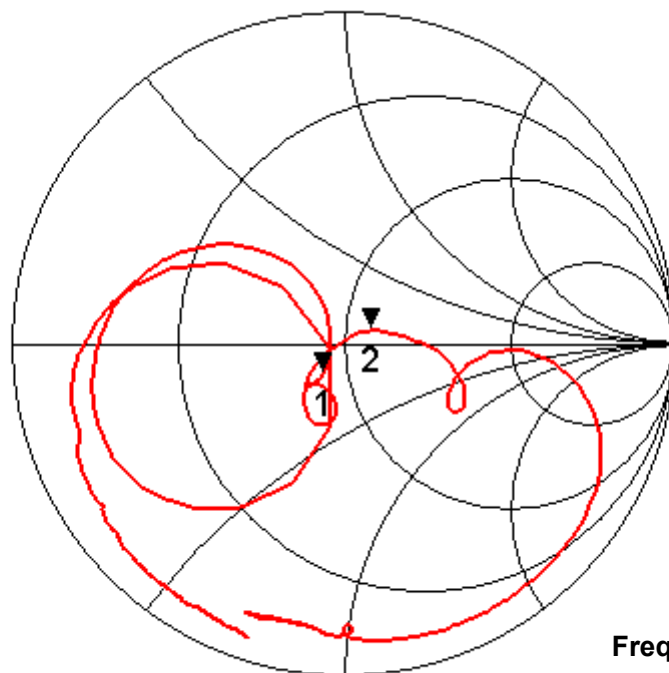


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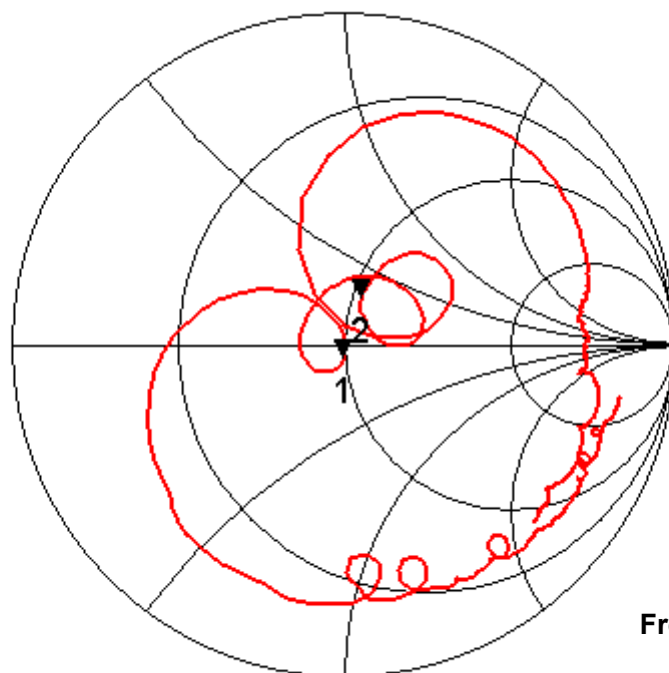
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Mk1: 2110.0
 $S_{11} = 0.854 - j 0.160$
 Mk2: 2170.0
 $S_{11} = 1.167 + j 0.107$

Frequency 1790-2490MHz

Fig.6 Impedance (unbal)



Mk1: 2110.0
 $S_{22} = 0.976 - j 0.105$
 Mk2: 2170.0
 $S_{22} = 1.072 + j 0.292$

Frequency 1790-2490MHz

Fig.7 Impedance (bal)



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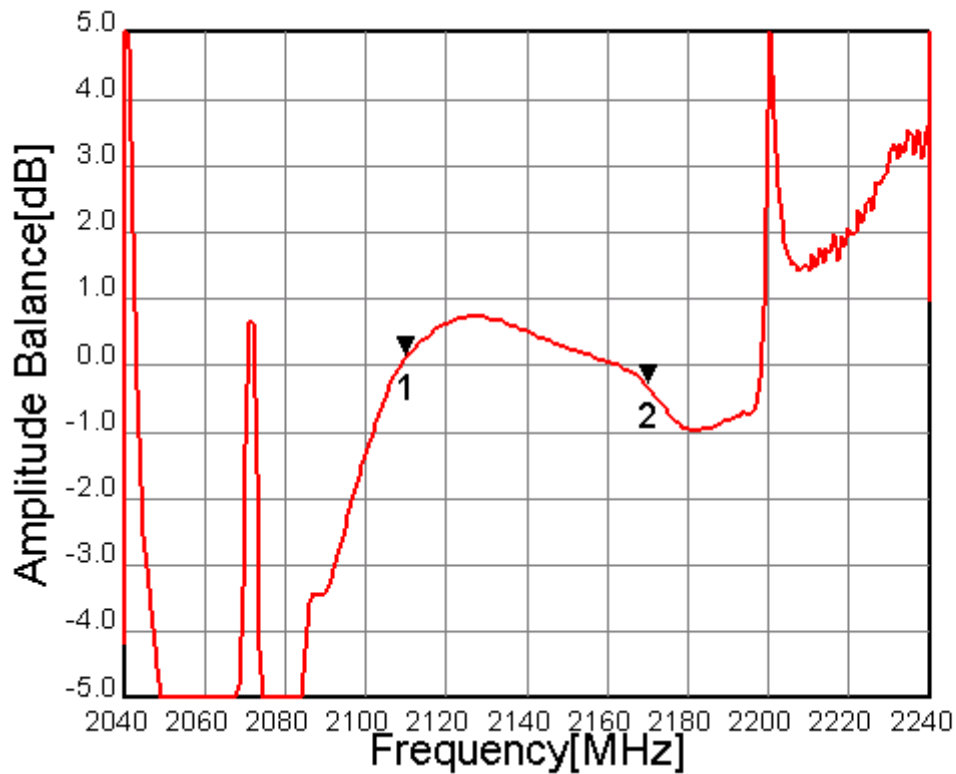


Fig.8 Amplitude Balance

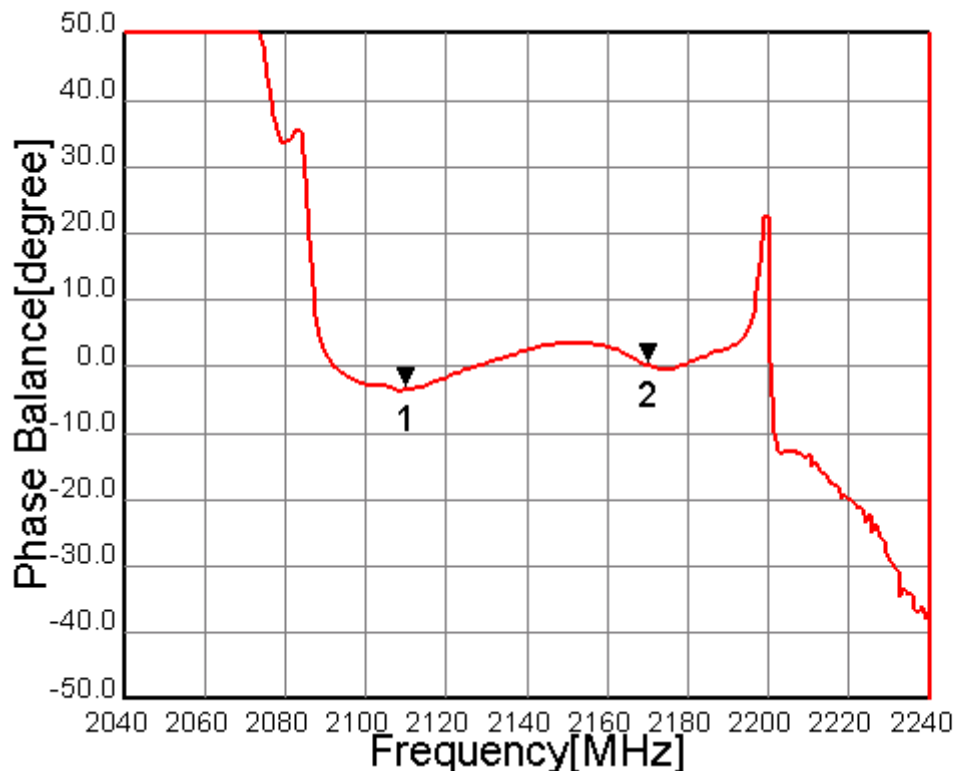


Fig.9 Phase Balance