



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	J-CDMA (2G/B.W.20MHz) Rx	Date	March 31, 2010
Part Number	FAR-F6KB-2G1200-B4GQ	Version 2.1b	

Table 1 Electrical Specification

Parameter	Condition /MHz	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Maximum Insertion attenuation	2110 - 2130	-	1.4	2.0	dB	
Amplitude ripple (p-p)	2110 - 2130	-	0.2	1.0	dB	
Input VSWR	2110 - 2130	-	1.4	2.0	-	
Output VSWR	2110 - 2130	-	1.4	2.0	-	
Output amplitude balance (S21/S31)	2110 - 2130	-1.2	-0.1/+0.3	+1.2	dB	
Output phase balance ((Φ S21- Φ S31)+180)	2110 - 2130	-10	+2.7/+3.6	+10	deg	
Attenuation	DC- 925	40	62	-	dB	
	1730-1750	30	40	-	dB	
	1920-1940	40	48	-	dB	
	3650-3690	35	50	-	dB	
	4030-4070	35	50	-	dB	
	4220-4260	35	50	-	dB	
	4260-6000	25	47	-	dB	
Operating temperature range		-30 ~ +85			°C	
Input Impedance (Unbalanced)		50			Ohm	
Output Impedance (Balanced)		100//10nH			Ohm	



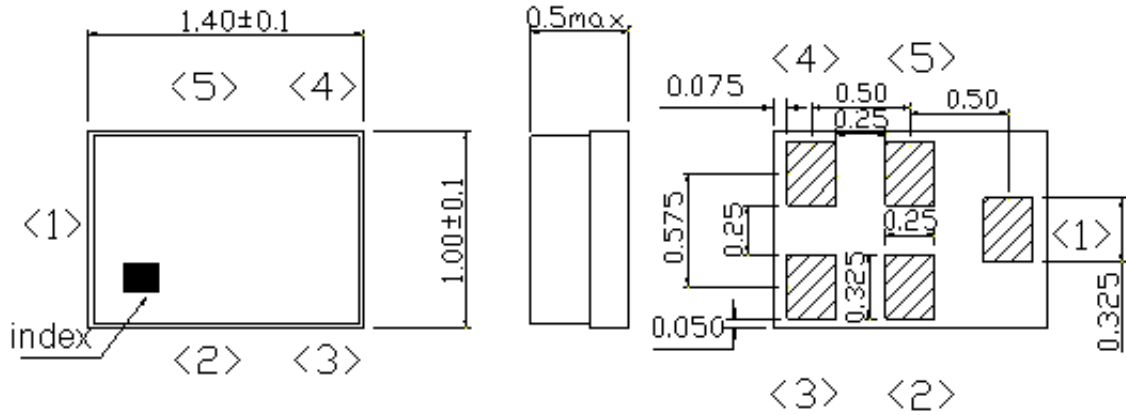
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Dimensions

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

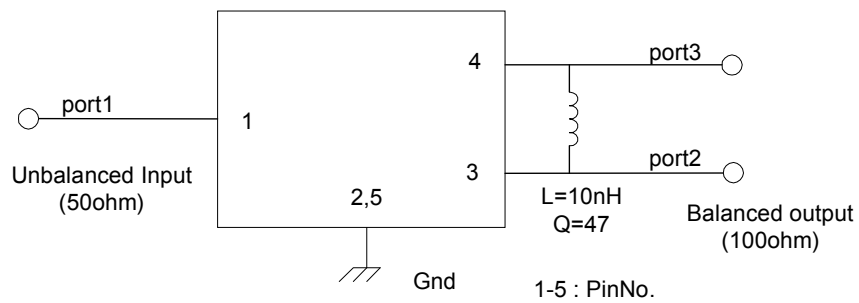


Unit : mm

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





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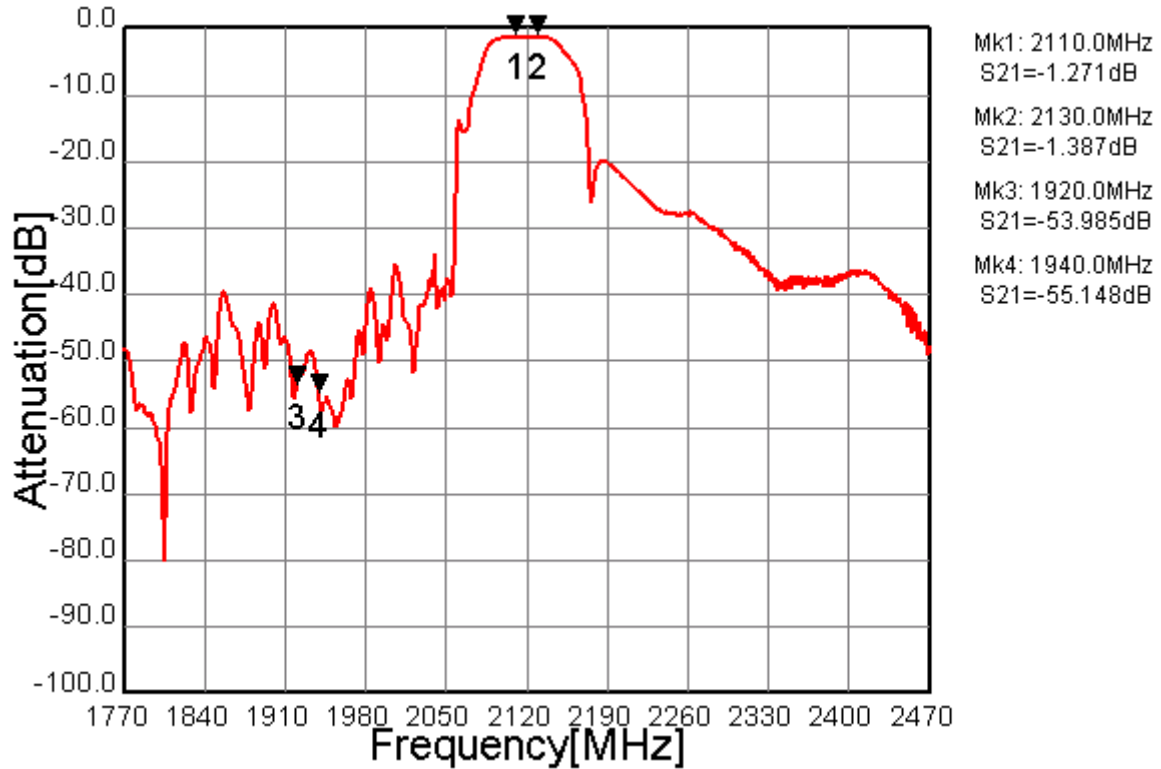


Fig.1 Pass-band Characteristics

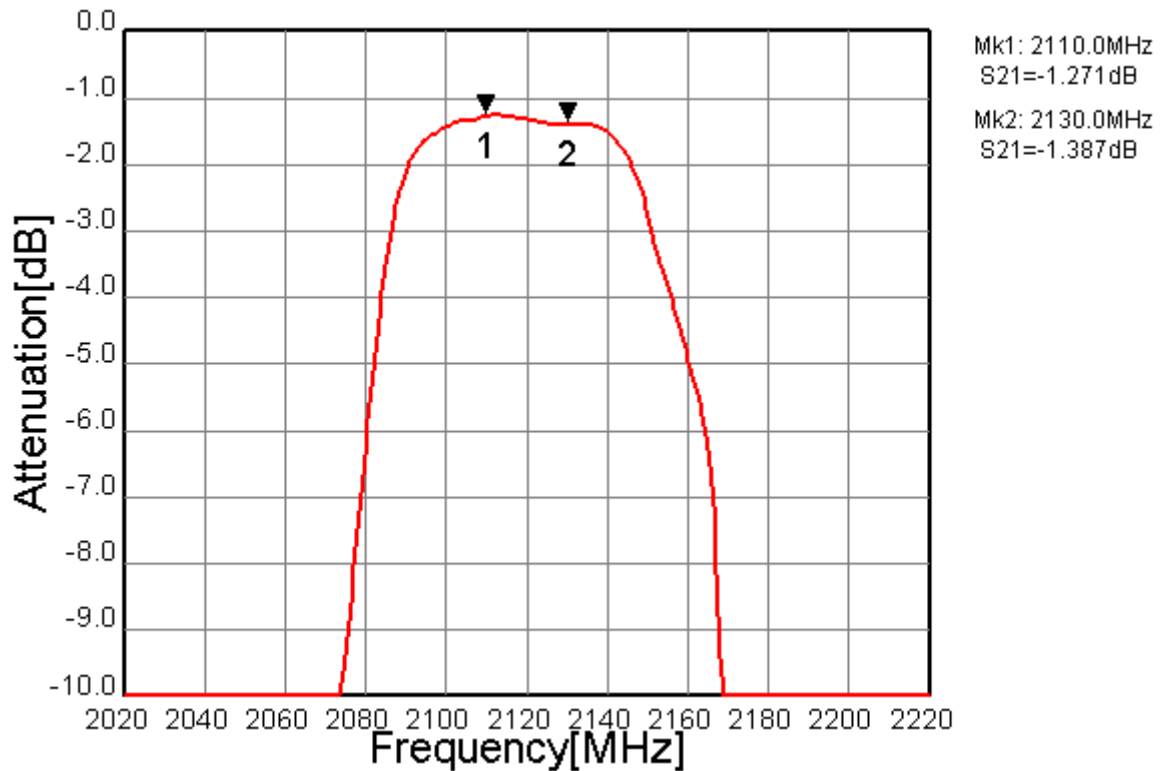


Fig.2 In-band Characteristics



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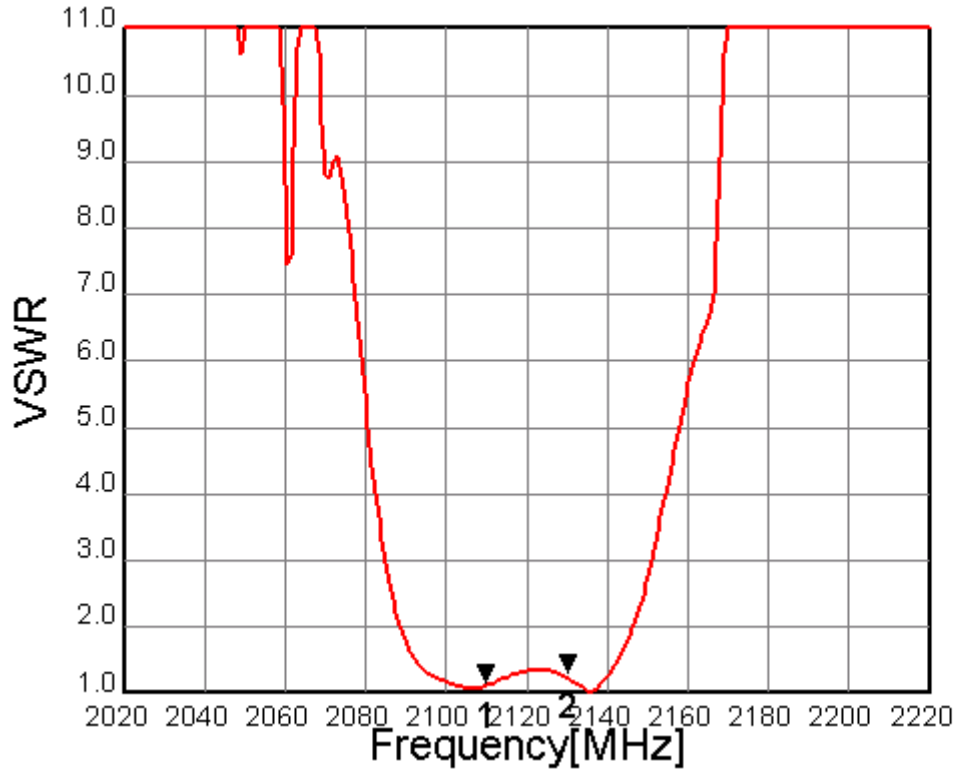


Fig.3 VSWR (unbal)

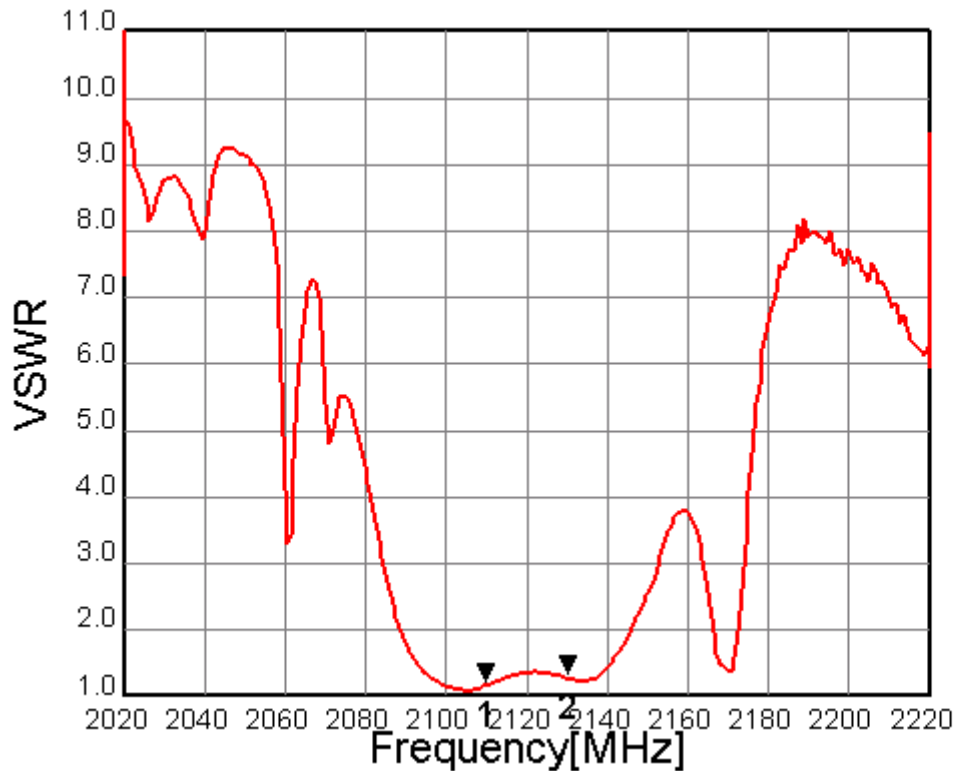


Fig.4 VSWR(bal)



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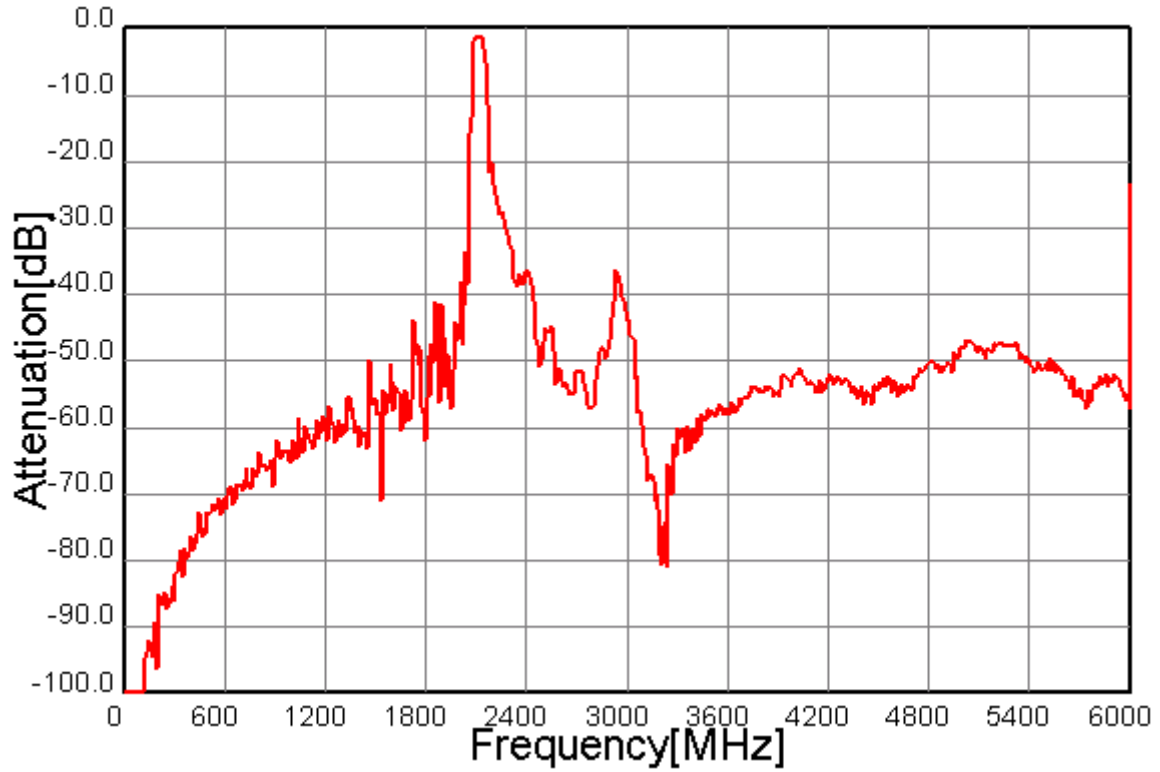


Fig.5 Wide-band Characteristics



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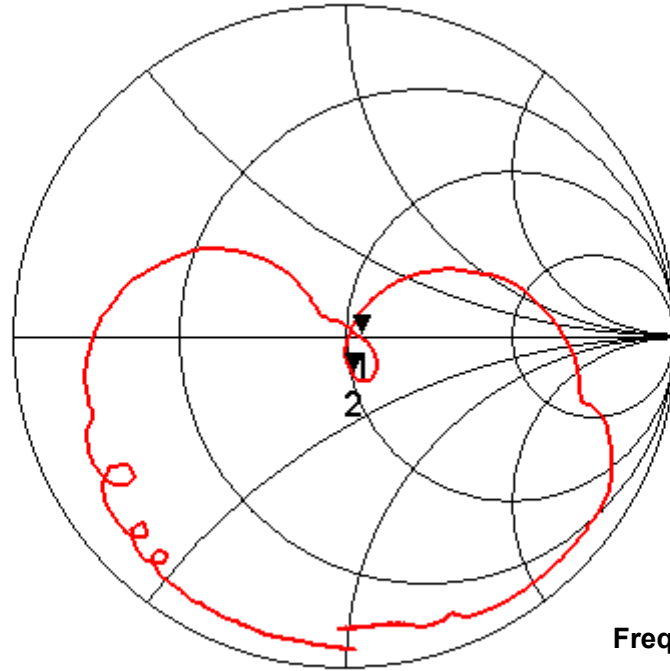


Fig.6 Impedance (unbal)

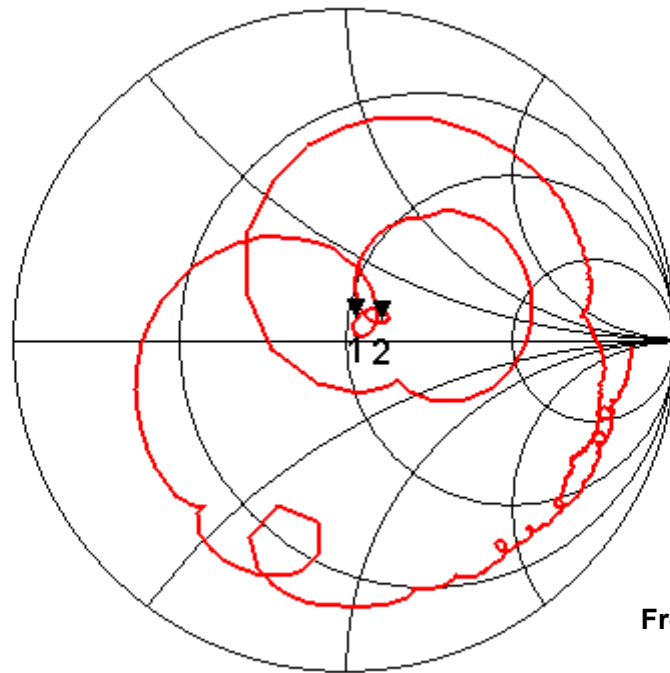


Fig.7 Impedance (bal)



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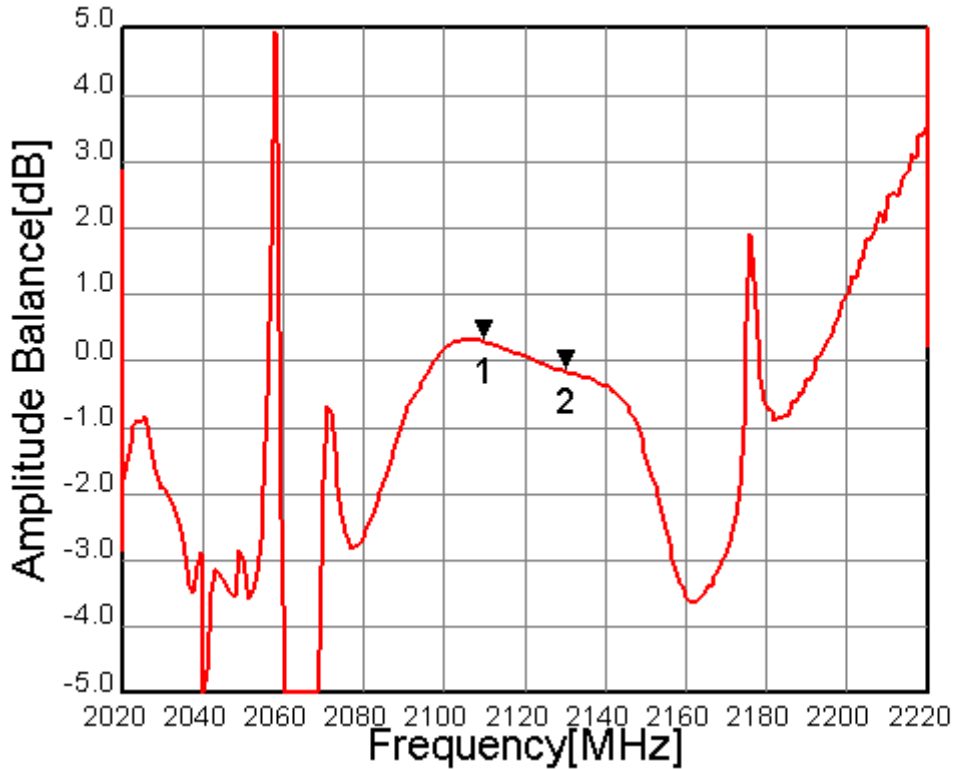


Fig.8 Amplitude Balance

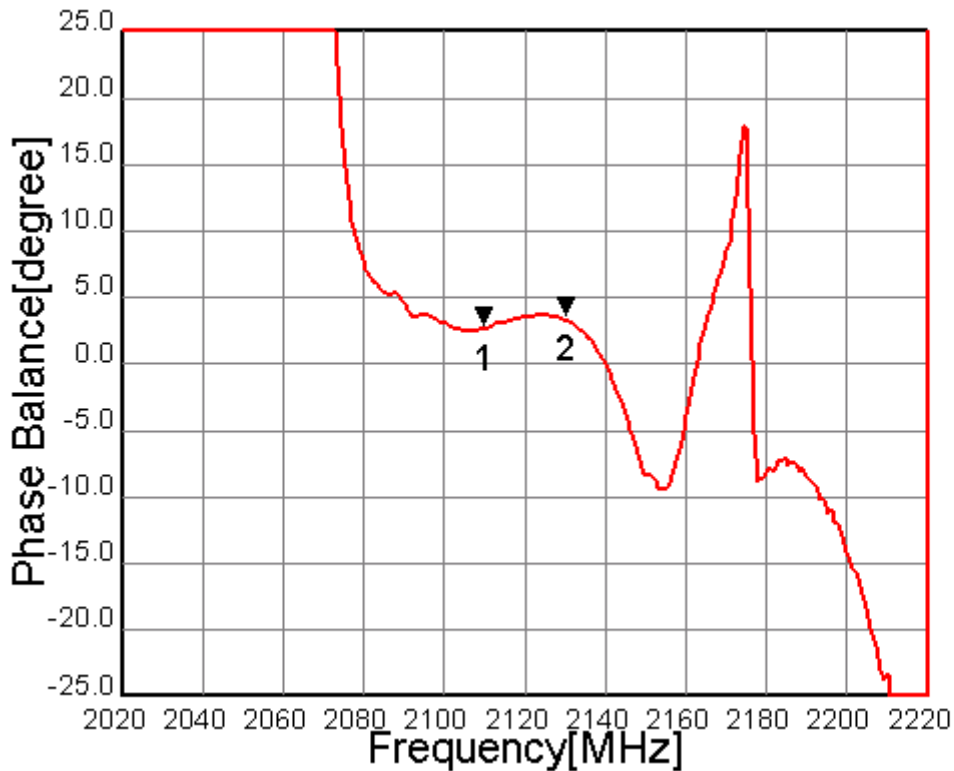


Fig.9 Phase Balance