



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	W-CDMA I (2G) Rx	Date	April 2, 2012
Part Number	FAR-F6KY-2G1400-B4UY	Version 2.2b	Final

Table 1 Electrical Specification

Parameter	Condition (MHz)	Specification			Unit	Remarks
		Ver. 2.2b				
		Min.	Typ.	Max.		
Insertion Loss	2110 - 2170	-	1.8	2.2(*)	dB	
Amplitude ripple	2110 - 2170	-	0.6	1.5	dB	
Input VSWR	2110 - 2170	-	1.8	2.0	-	
Output VSWR	2110 - 2170	-	1.8	2.0	-	
Attenuation	10 - 1920	40	50	-	dB	
	810 - 830	50	61	-	dB	
	898 - 925	50	61	-	dB	
	824 - 849	50	61	-	dB	
	1920 - 1980	50	64	-	dB	
	2200 - 2500	20	30	-	dB	
	2500 - 6000	35	40	-	dB	
Amplitude balance (S21/S31)	2110 - 2170	-1	-0.7~ +0.5	1	dB	
Phase balance ((ϕ S21- ϕ S31)+180)	2110 - 2170	-10	-7~+5	10	deg.	
Input Power		-	-	15	dBm	
Operating temperature range		-30 ~ +85			°C	
Input Impedance (Unbalanced)		50			ohm	
Output Impedance (Balanced / differential)		100			ohm	
Device size		1.4typ. x 1.0typ. x 0.5max.			mm	

(*) Specification of insertion loss includes loss that comes from the test board.



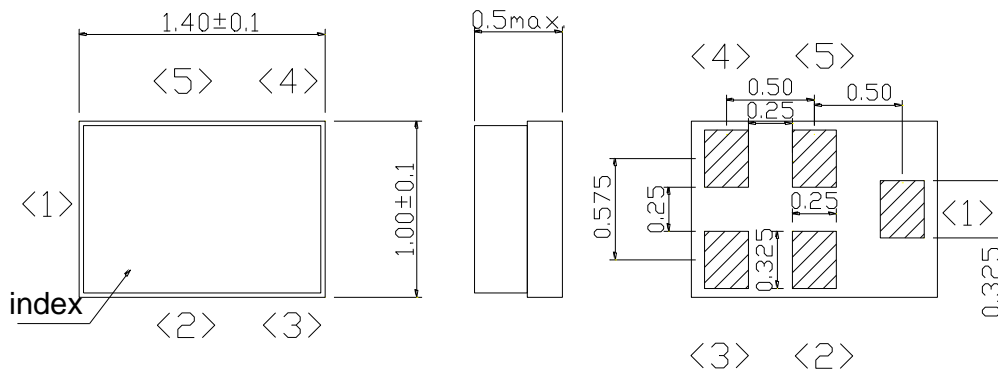
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Dimensions

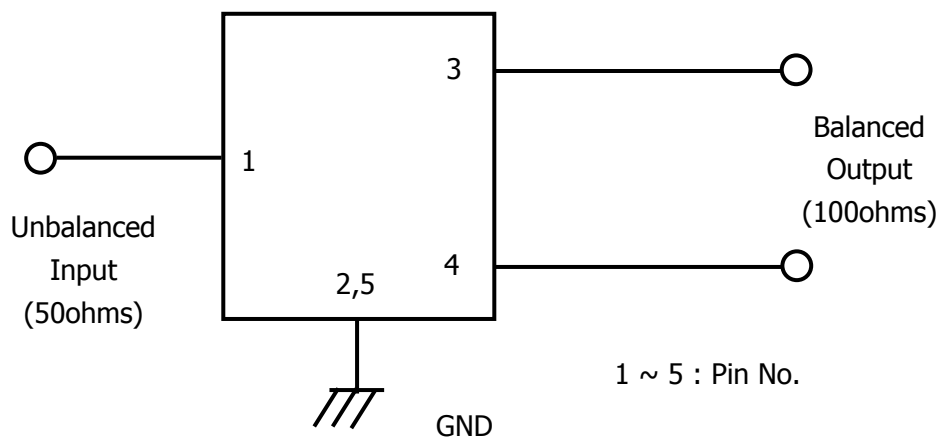
Device size: 1.4mmtyp. x 1.0mmtyp. x 0.5mmmax.



Unit : mm

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

Evaluation Circuit





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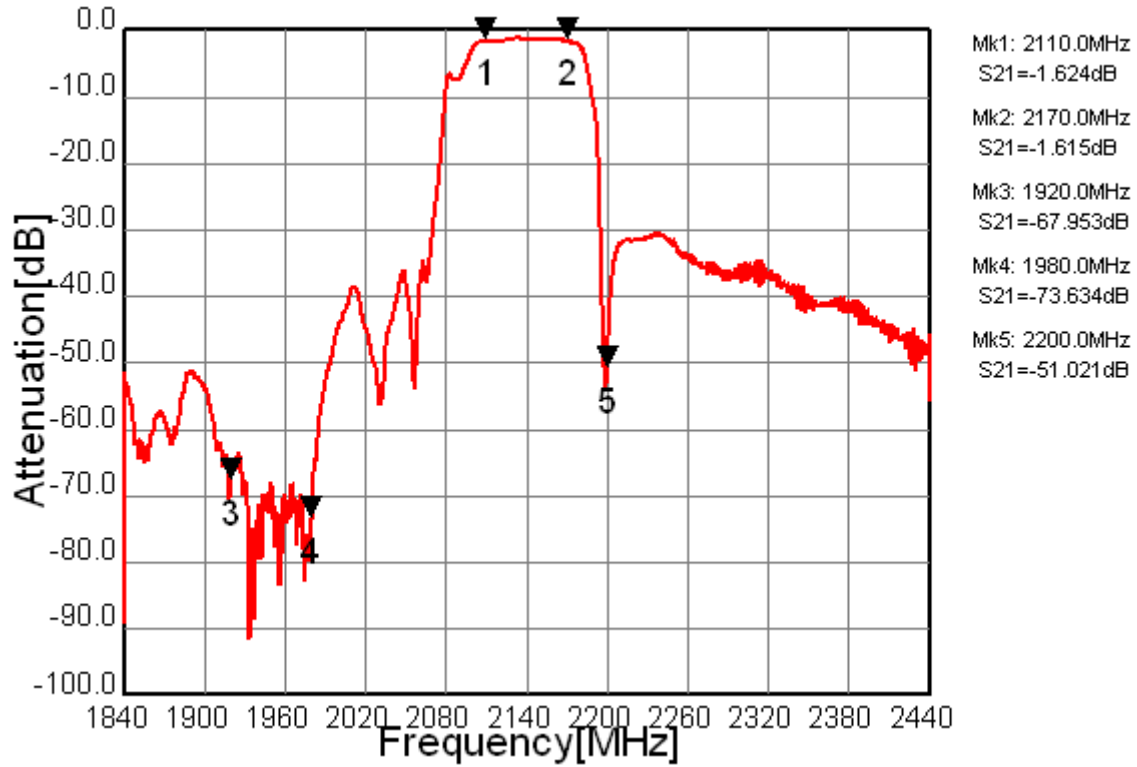


Fig.1 Pass-band Characteristic

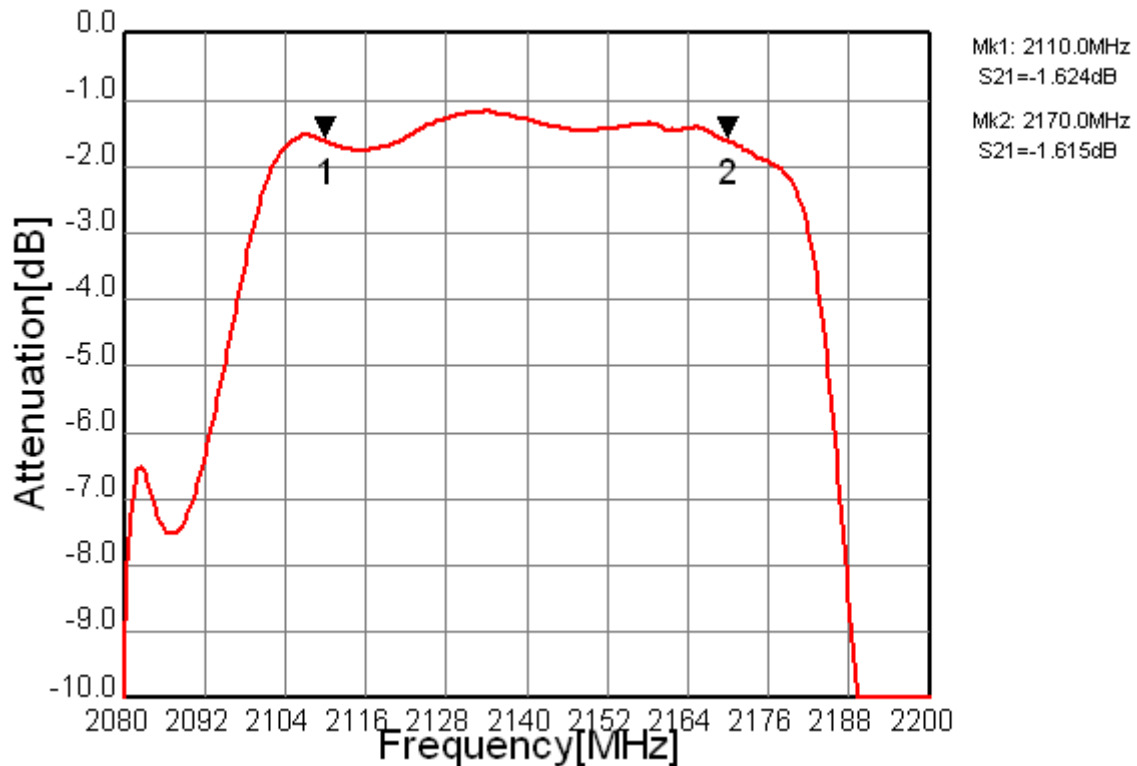


Fig.2 In-band Characteristic



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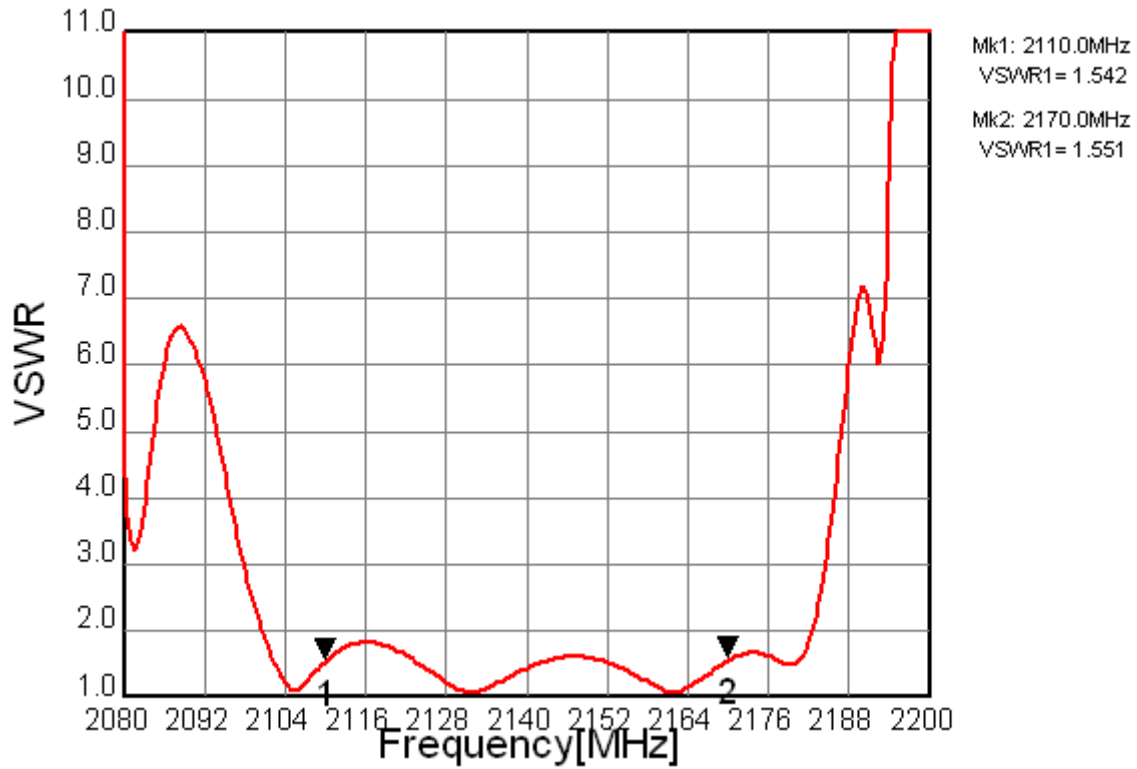


Fig.3 VSWR (INPUT)

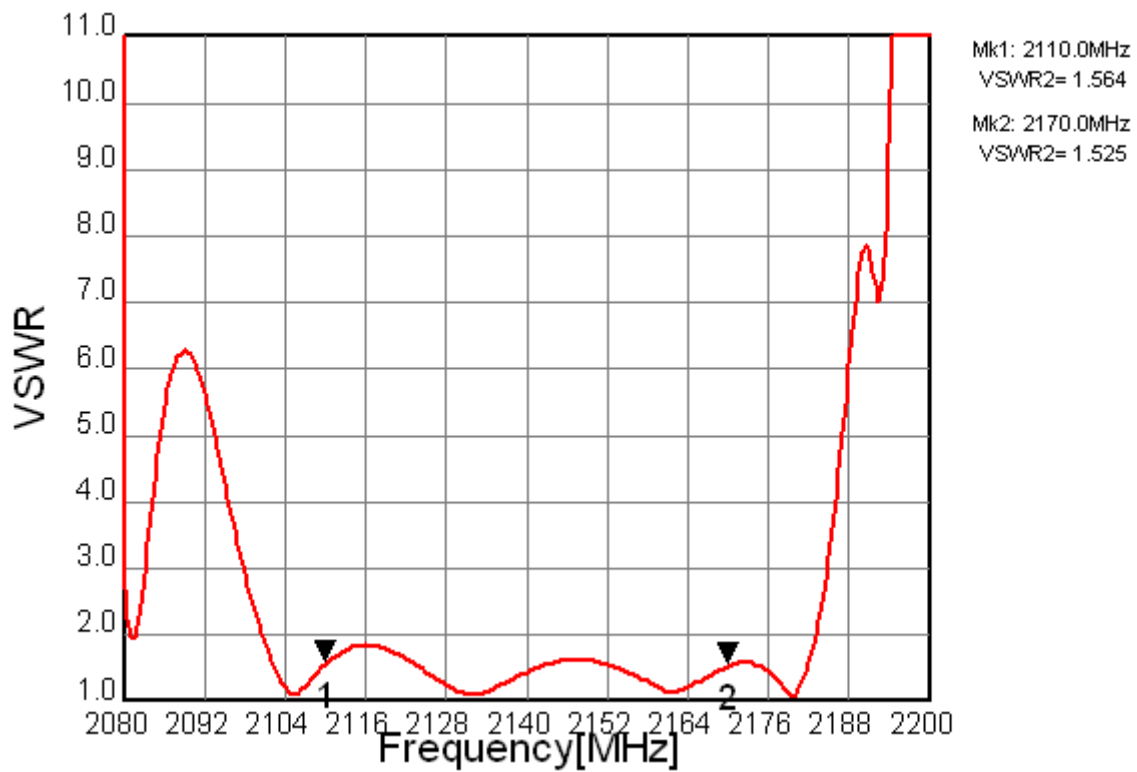


Fig.4 VSWR (OUTPUT)



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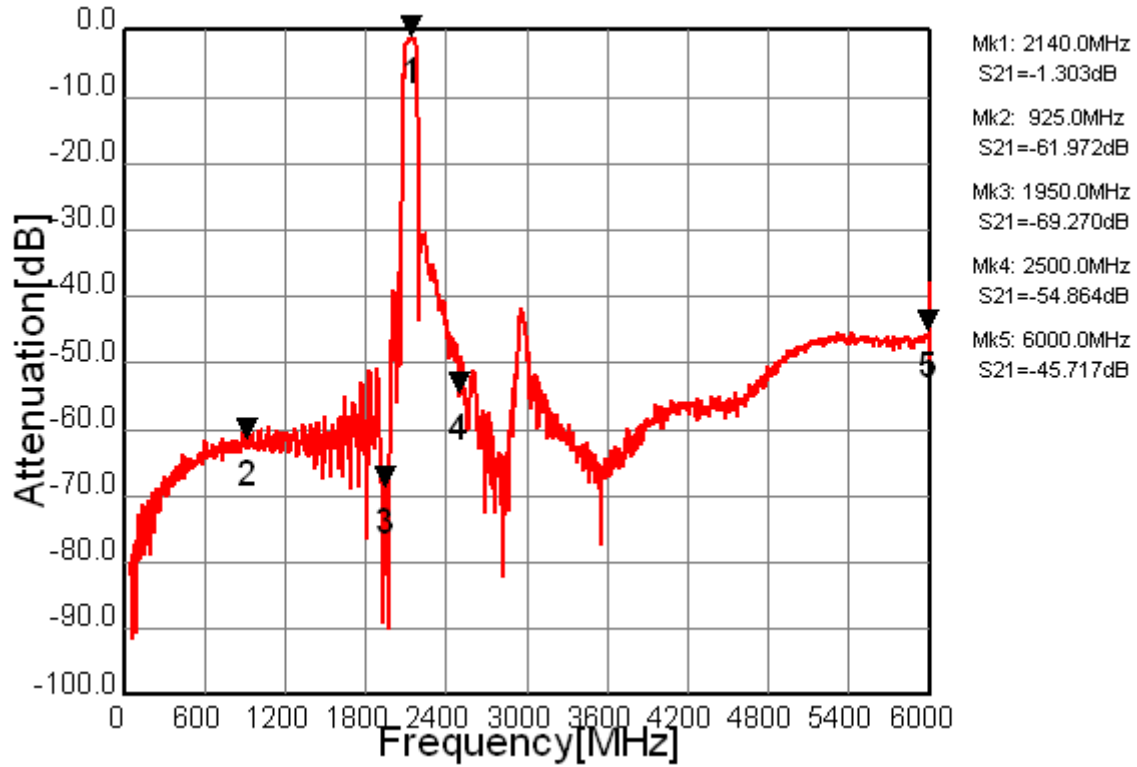


Fig.5 Wide-band Characteristic



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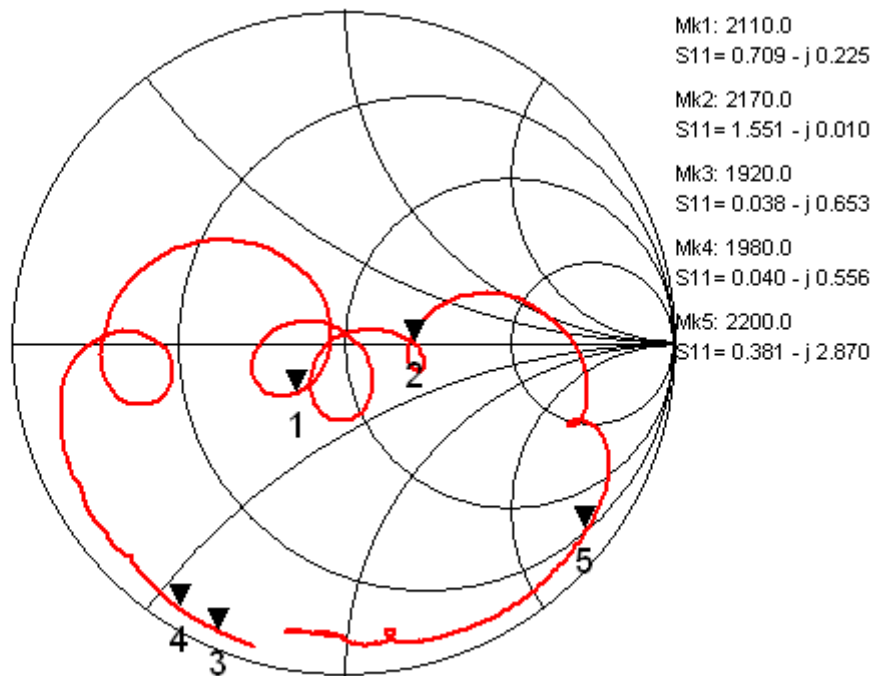


Fig.6 Impedance (S11)

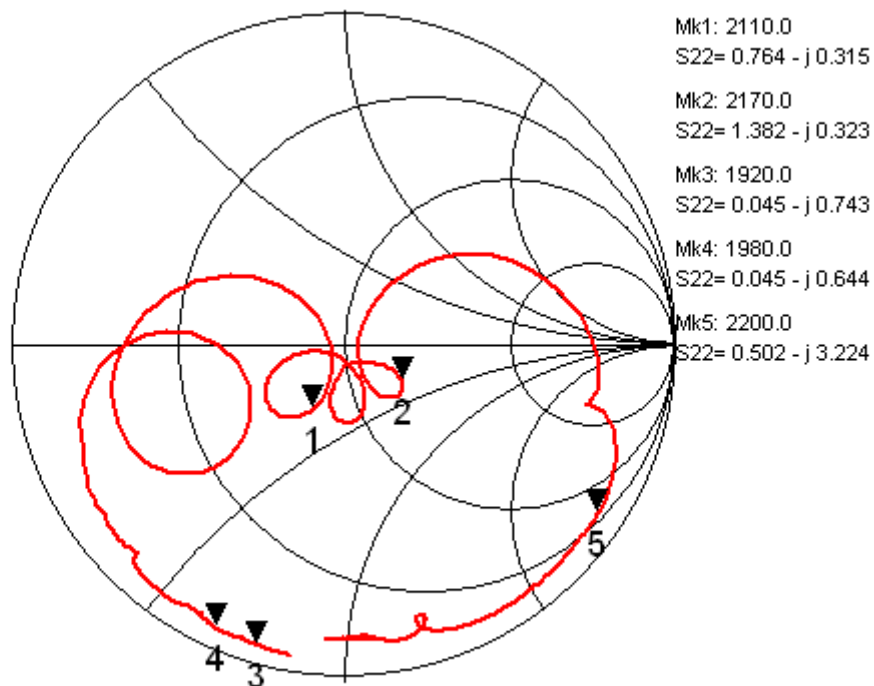


Fig.7 Impedance (S22)



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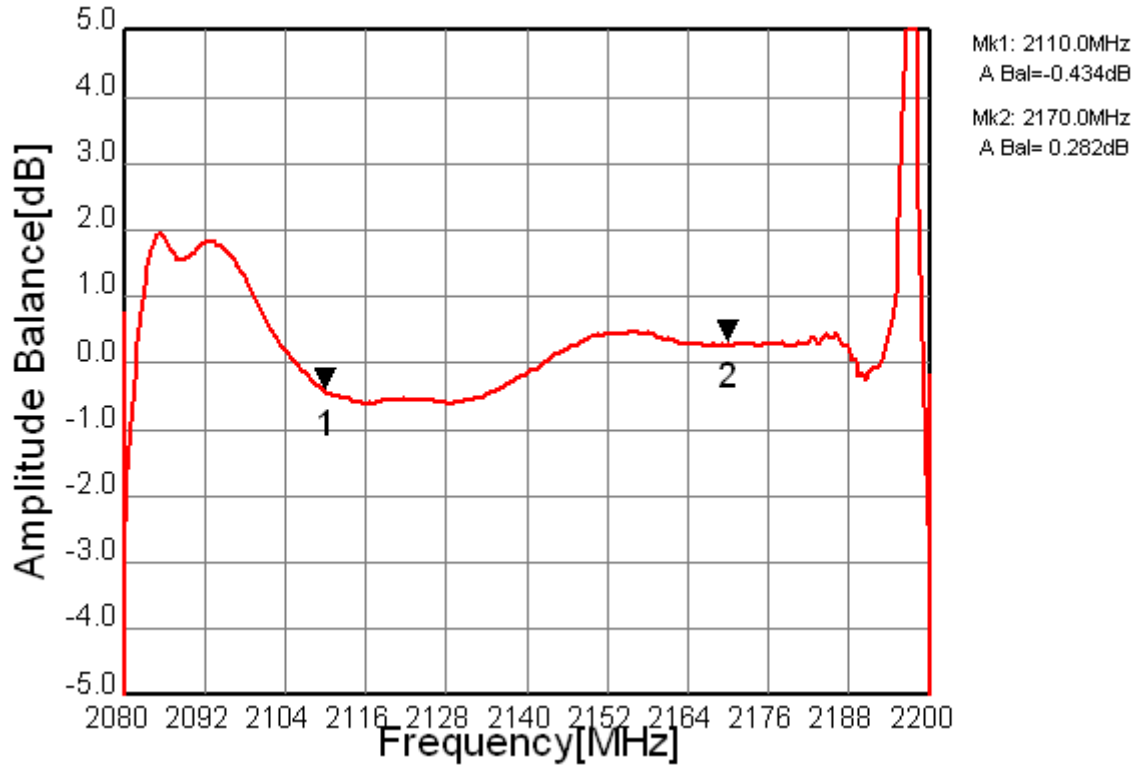


Fig.8 Amplitude balance

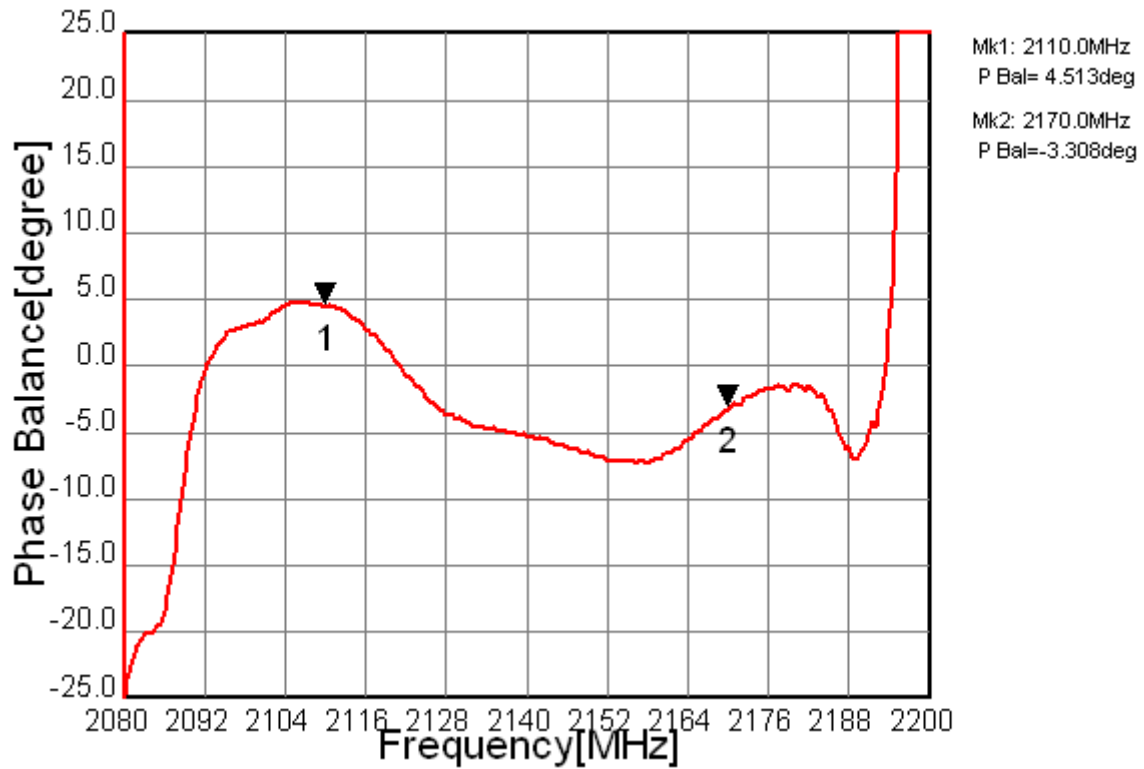


Fig.9 Phase balance



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