



* Pb Free Part



MSL1

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 ((ΦS21-ΦS31)+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.



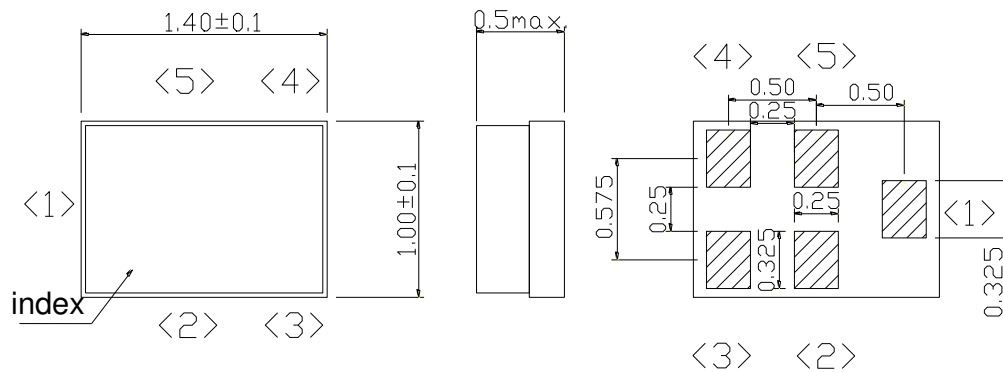
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Dimensions

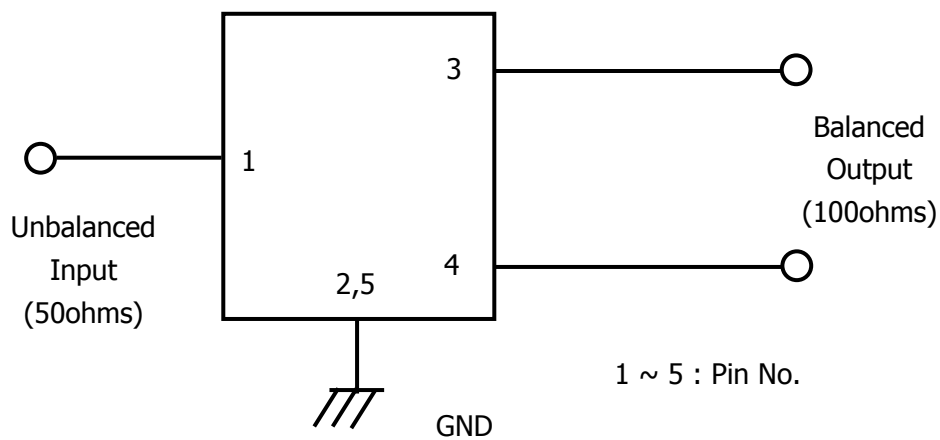
Device size: 1.4mmtyp. x 1.0mmtyp. x 0.5mmmax.



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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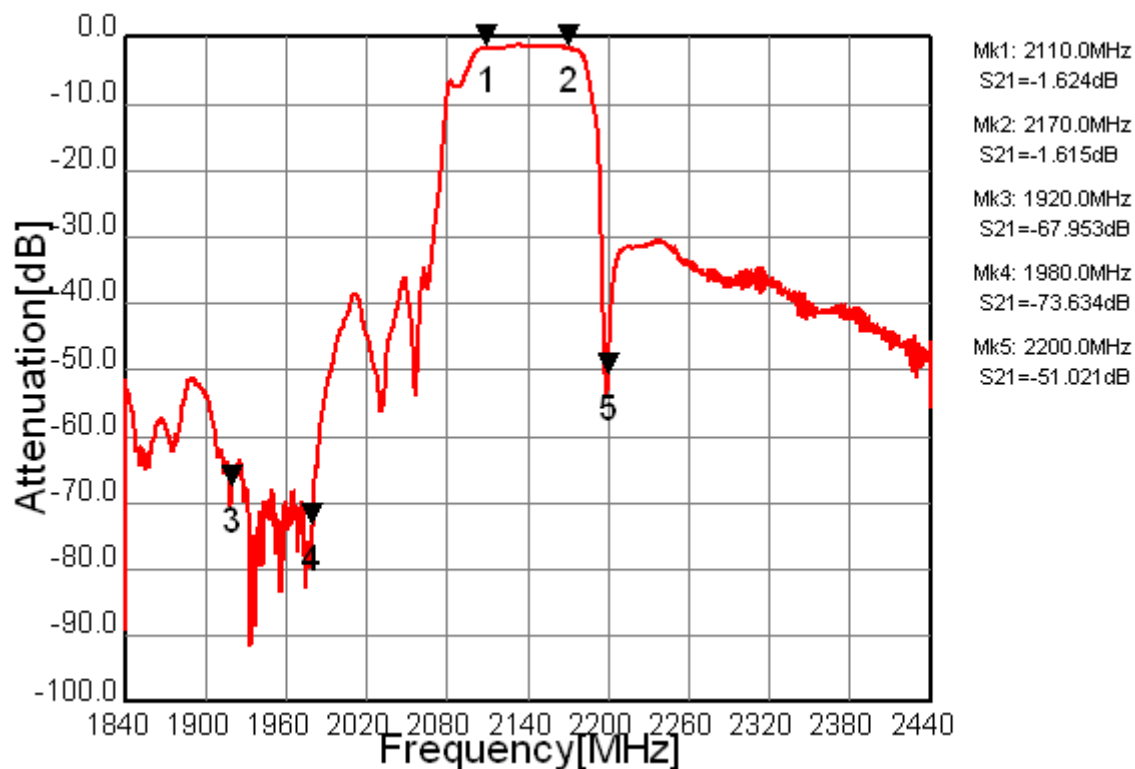


Fig.1 Pass-band Characteristic

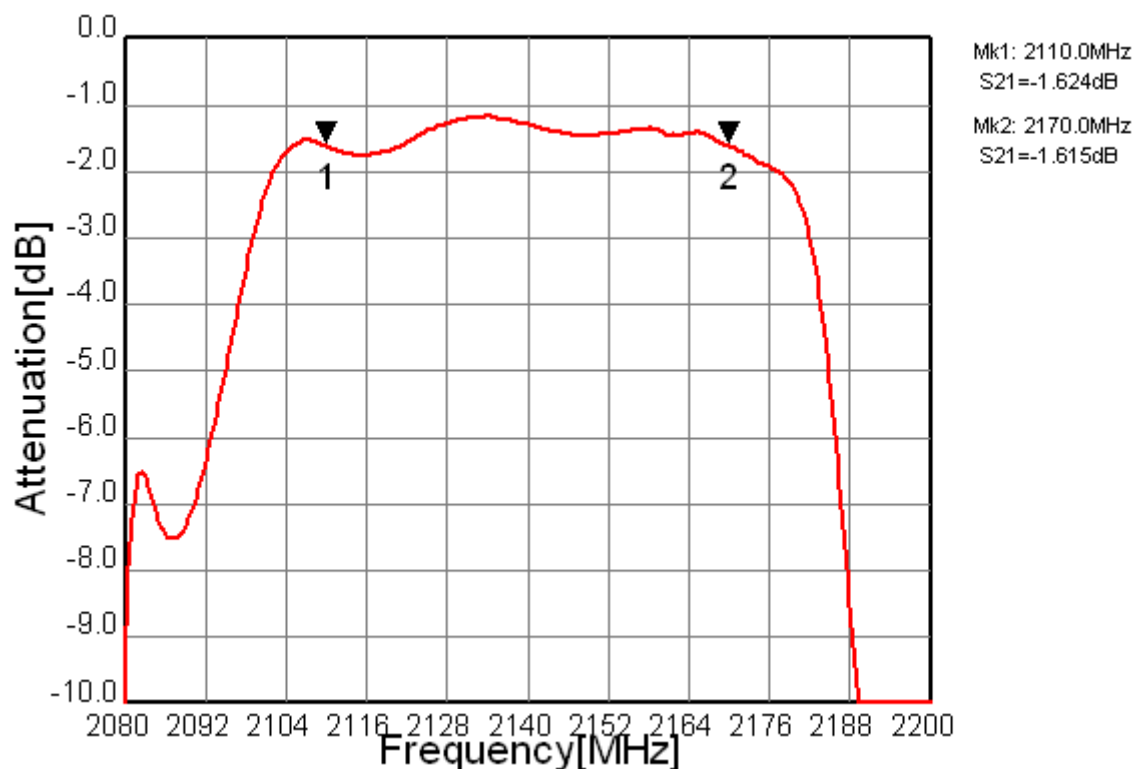


Fig.2 In-band Characteristic



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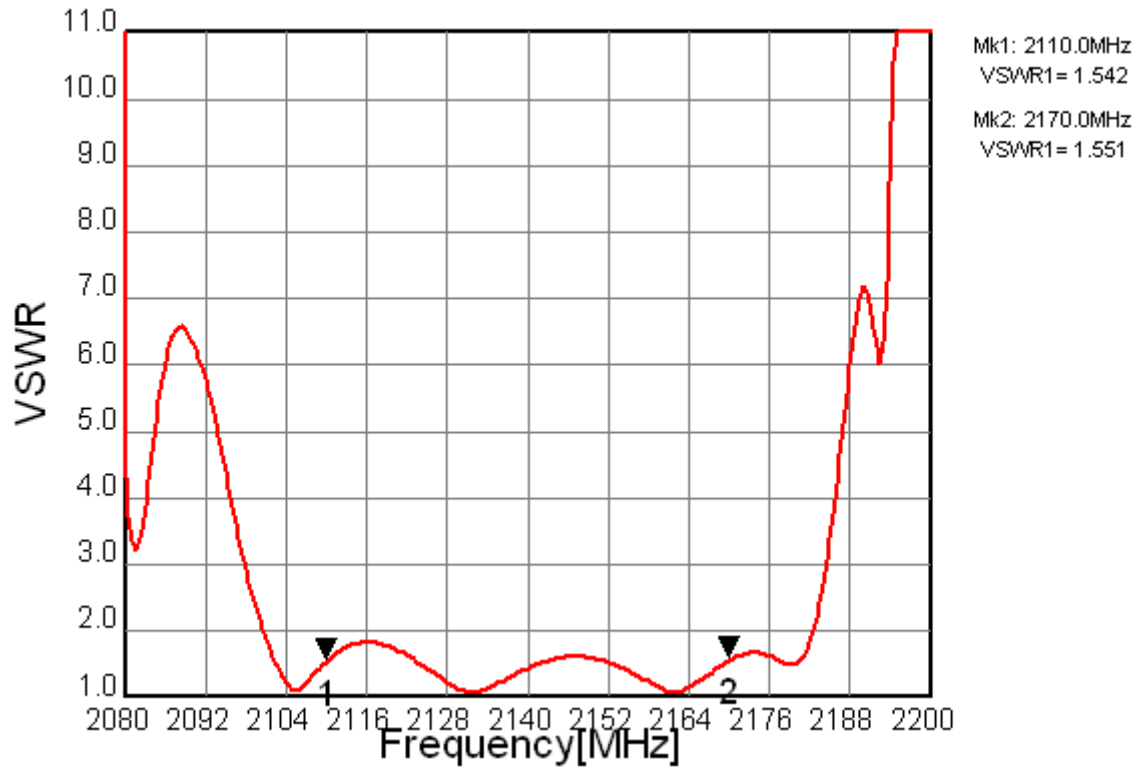


Fig.3 VSWR (INPUT)

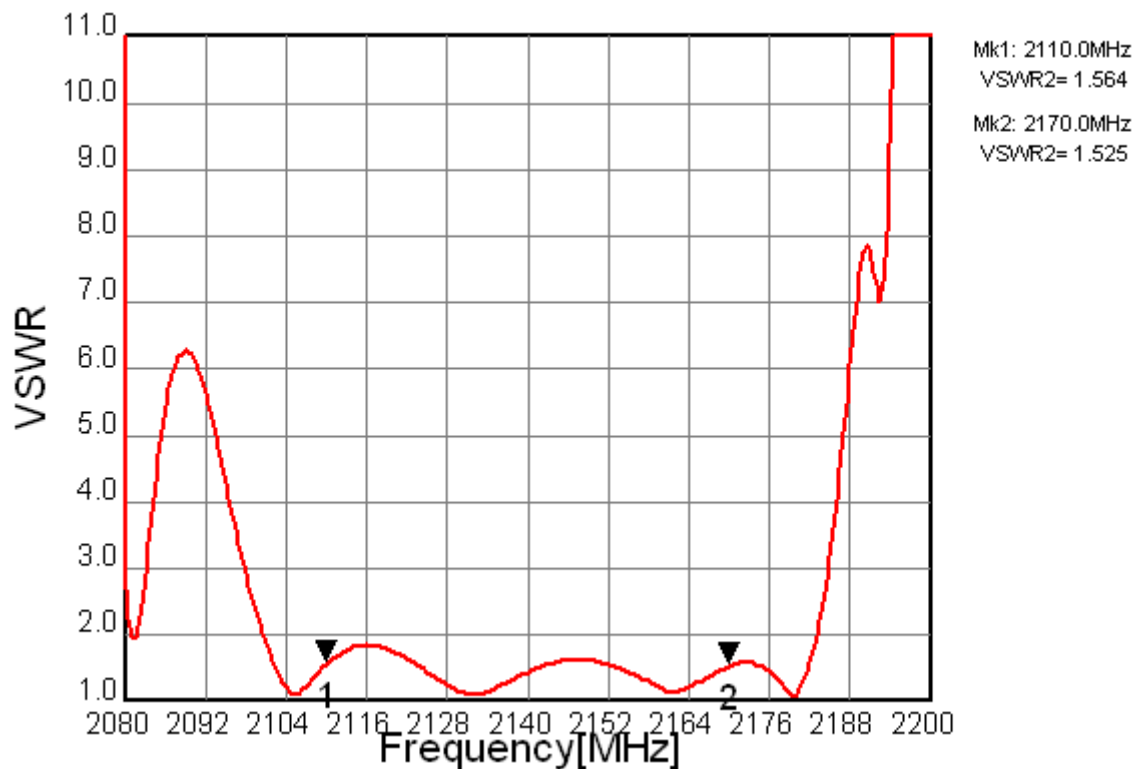


Fig.4 VSWR (OUTPUT)

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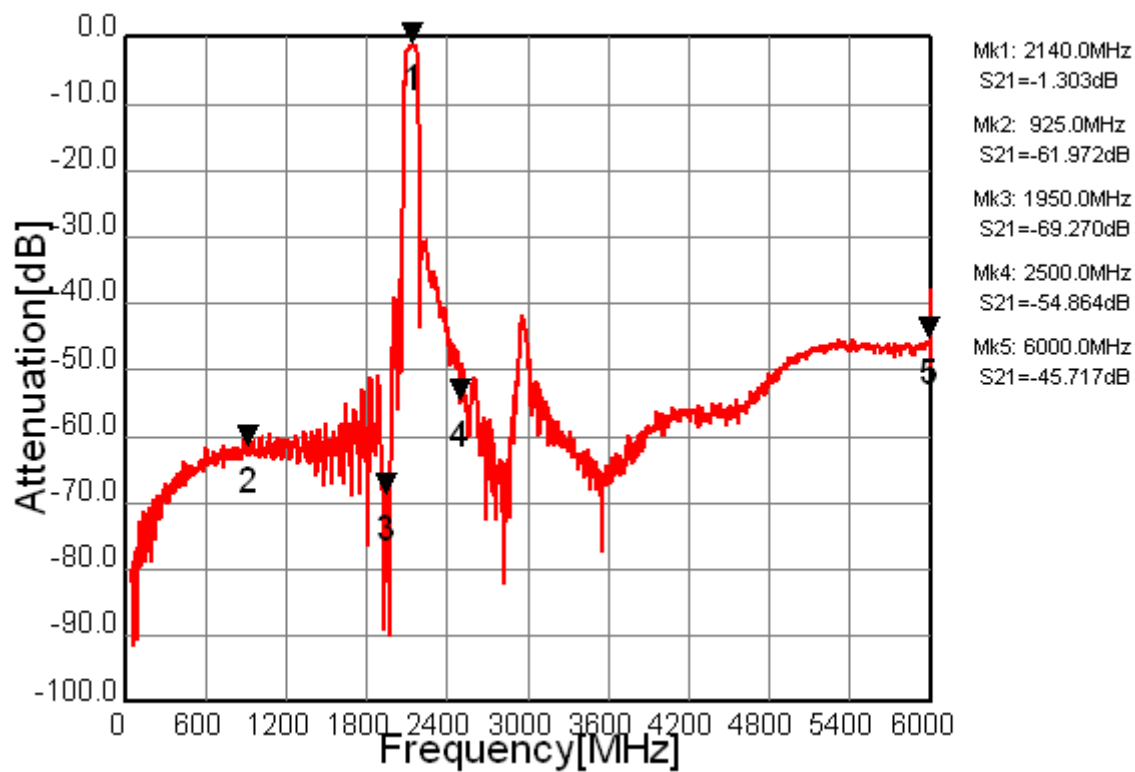


Fig.5 Wide-band Characteristic



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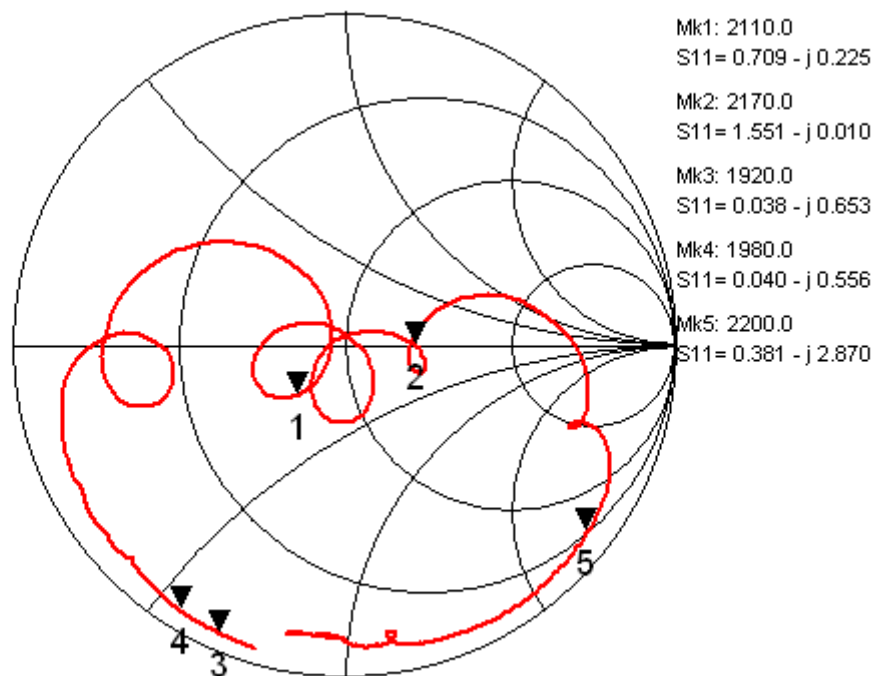


Fig.6 Impedance (S11)

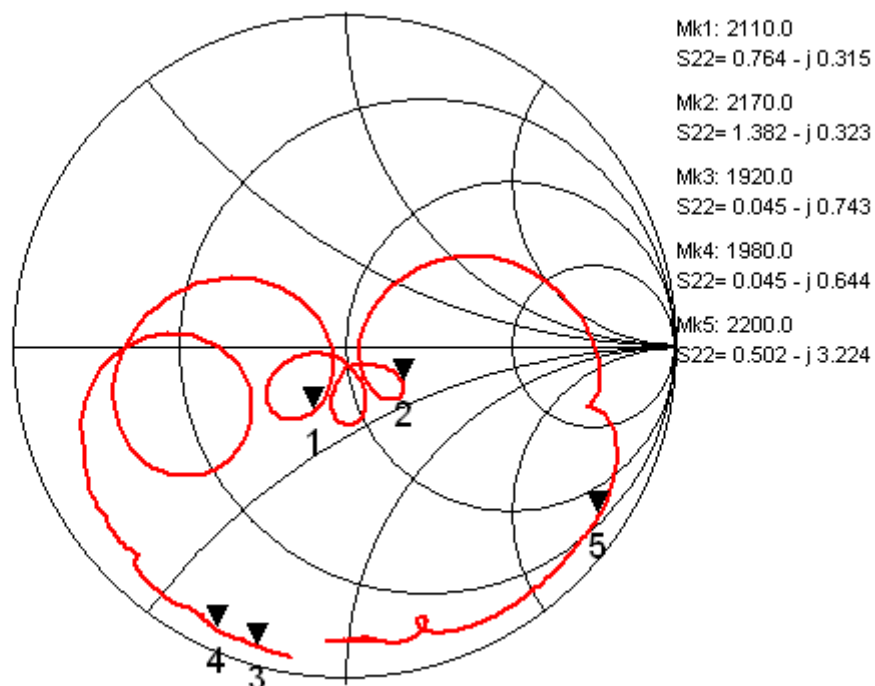


Fig.7 Impedance (S22)



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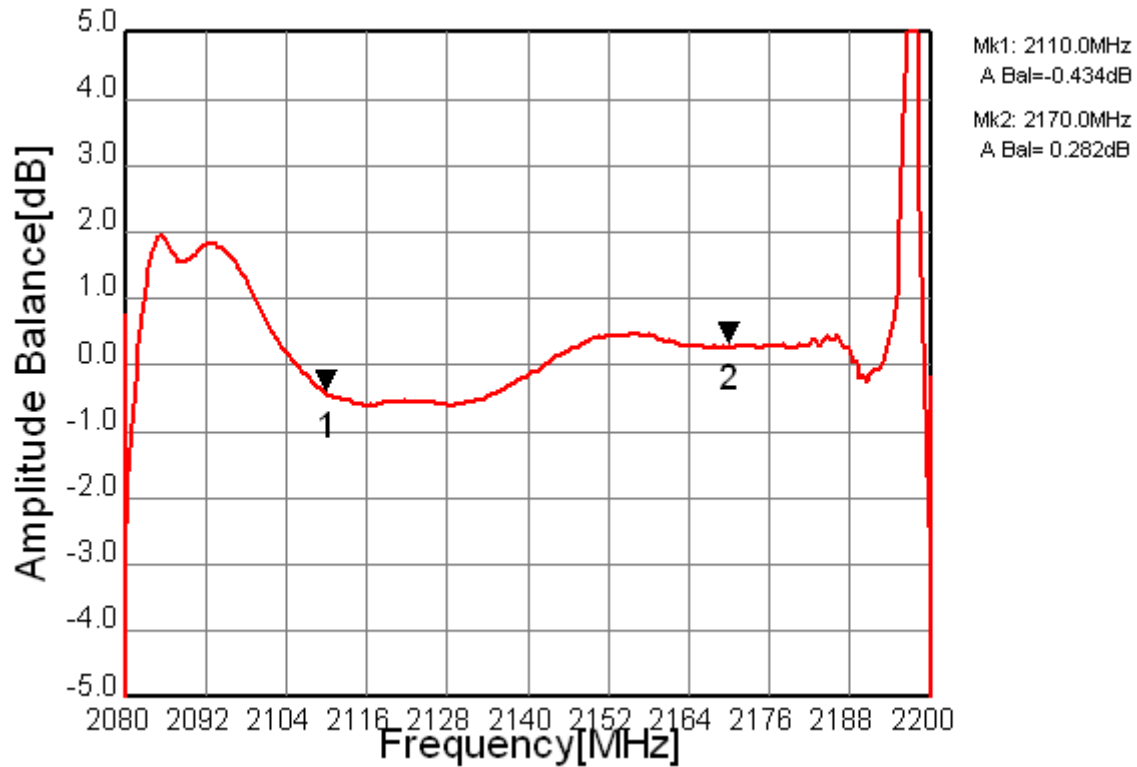


Fig.8 Amplitude balance

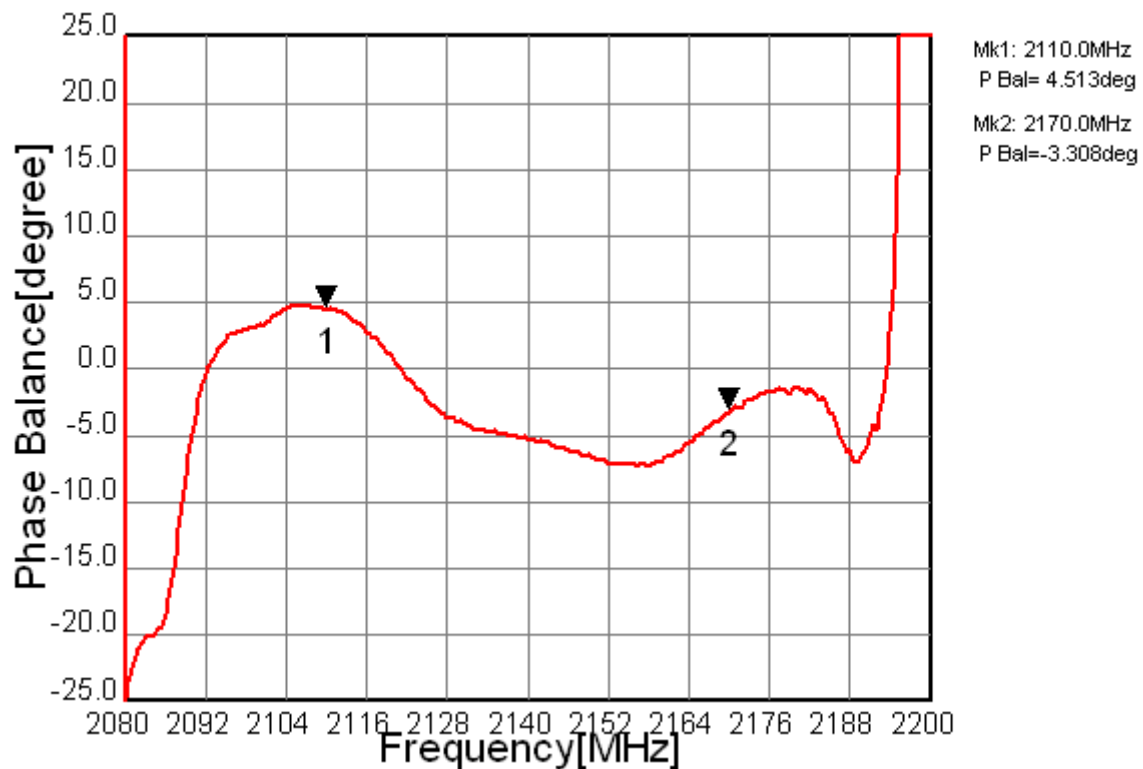


Fig.9 Phase balance

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Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.

This product is for general electronics equipment such as Audio-Visual equipment, household electronics, office supplies, information services and telecommunications; therefore, in case this product is used for any medical equipment, space equipment, nuclear equipment or disaster prevention equipment, please contact TAIYO YUDEN in advance.

In case this product is used for general electronics equipment or circuits which require high safety and high reliability, thoroughly evaluate on safety and add a protection circuit if necessary.