



MSL1

* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Low Loss Diversity CDMA Rx (50/100ohm)	Date	March 31, 2010
Part Number	FAR-F5KY-881M50-B4UZ	Version 1.2d	

Table 1. Electrical specifications

Passband: 869 ~ 894 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	869~894	-	1.5	2.2	dB	
Ripple	869~894	-	0.5	1.2	dB	
Attenuation	DC~824	50	72	-	dB	
	824~849	46	61	-	dB	
	824.6~848.4	50	58	-	dB	
	914~960	25	34	-	dB	
	1738~1788	50	66		dB	
	1850~1910	50	66		dB	
	1920~6000	40	53		dB	
VSWR (Input)	869~894	-	1.5	2.0	-	
VSWR (Output)	869~894	-	1.6	2.0	-	
Amplitude balance (S21/S31)	869~894	-1.0	-0.1/+0.2	+1.0	dB	
Phase balance ((ϕ S21- ϕ S31)+180)	869~894	-10	-0.4/+3.8	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	50
Output Impedance	Balanced	100			Ohm	100
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ. x 1.0typ. x 0.5max.			mm	



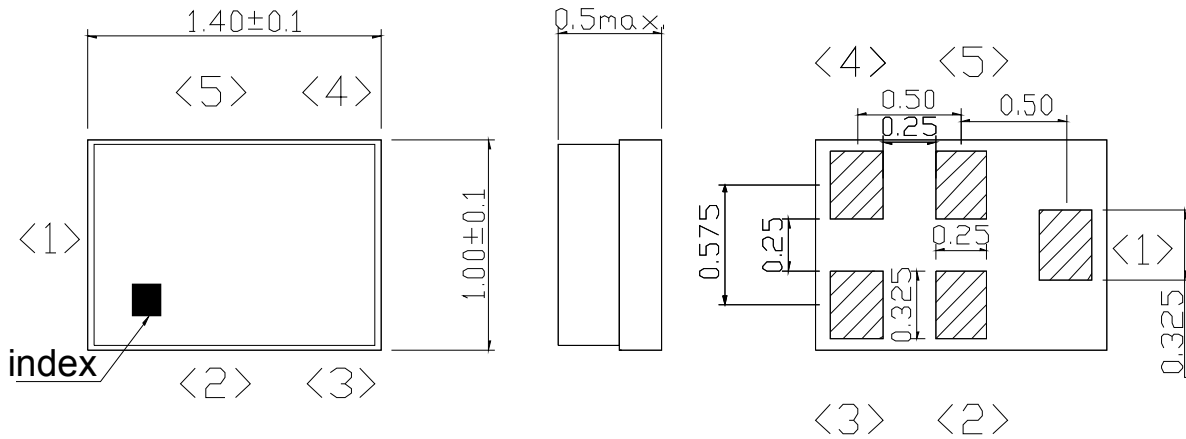
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Dimensions

Device size: 1.4typ. x 1.0typ. x 0.5max

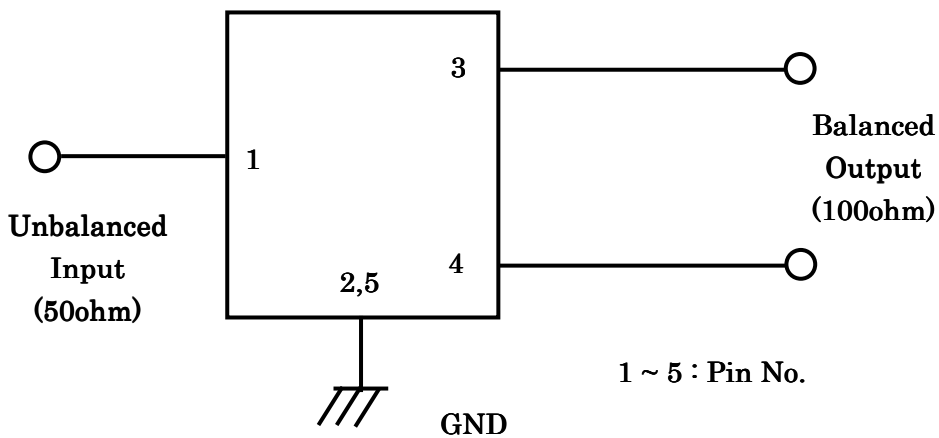


Unit : mm

Pin Configuration

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

Test Condition





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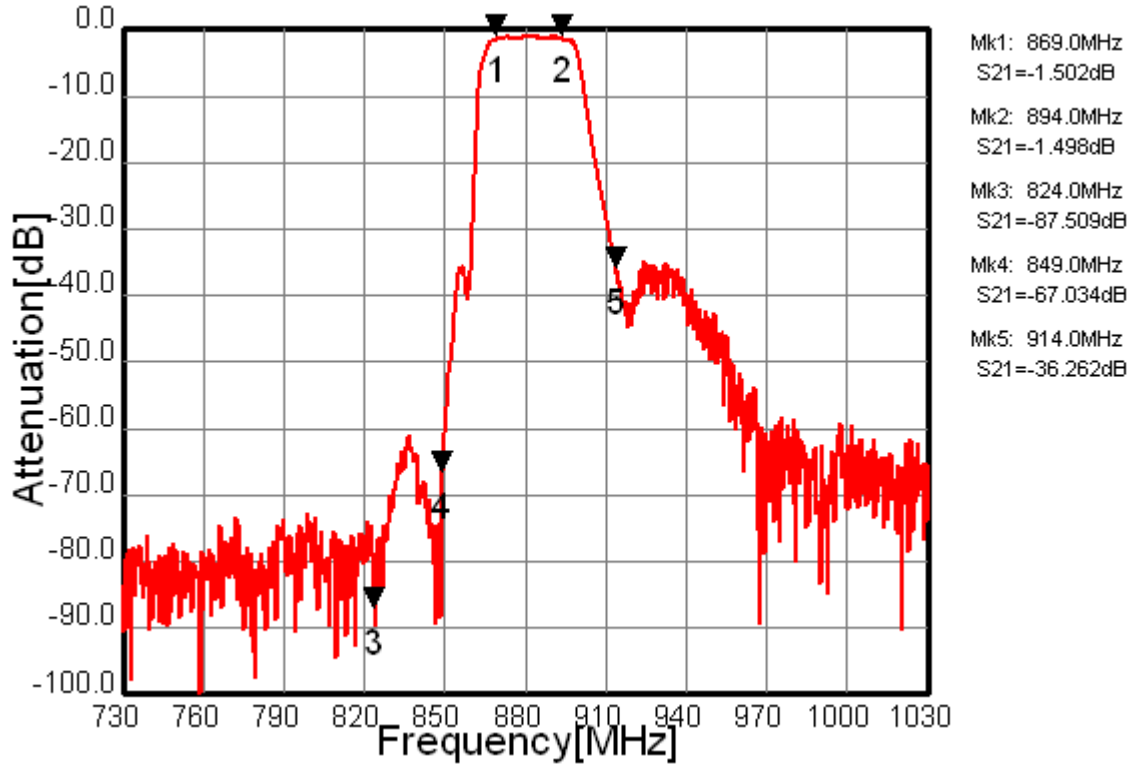


Fig.1 Pass-band Characteristics

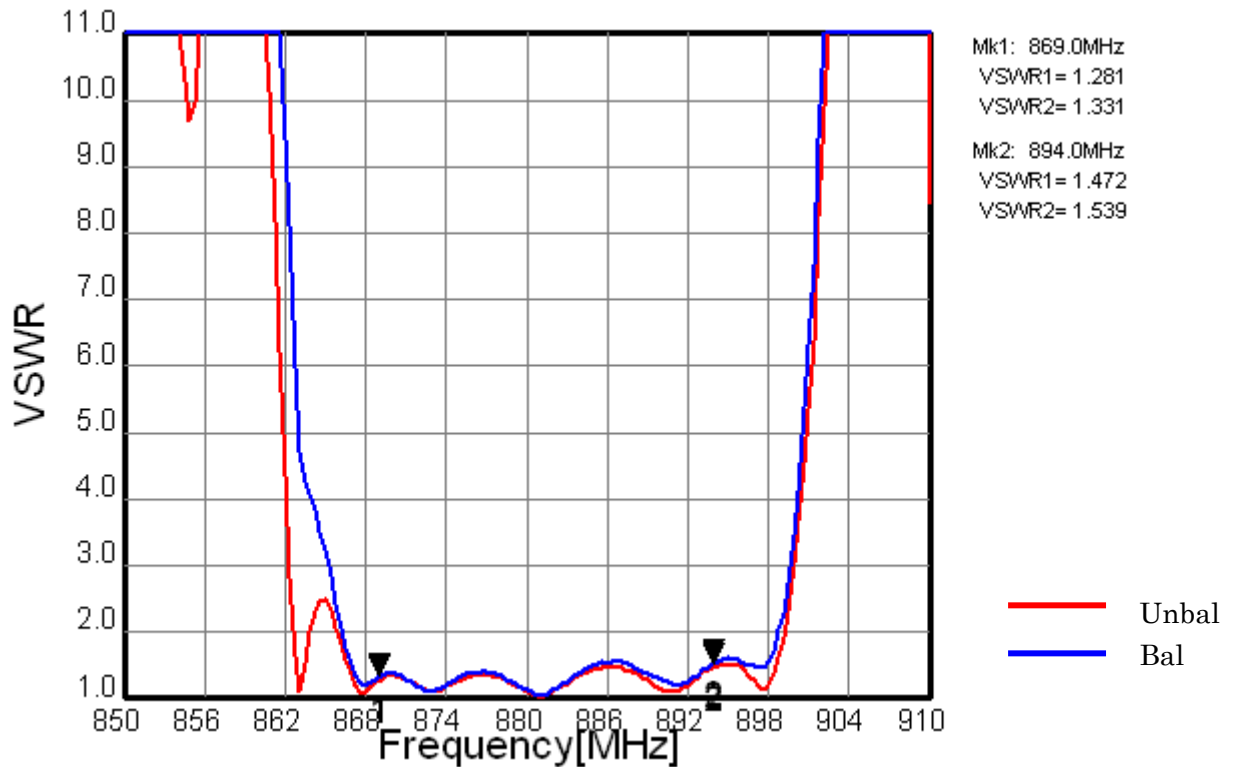


Fig.2 VSWR



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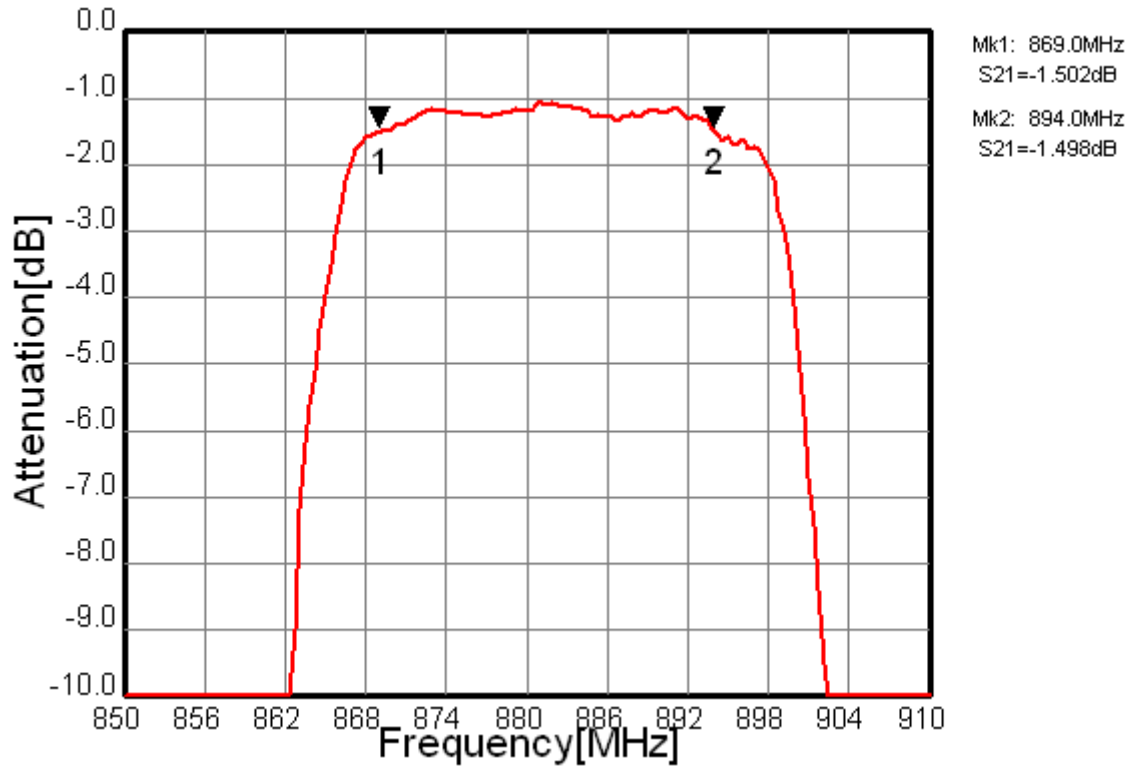


Fig.3 In-band Characteristics

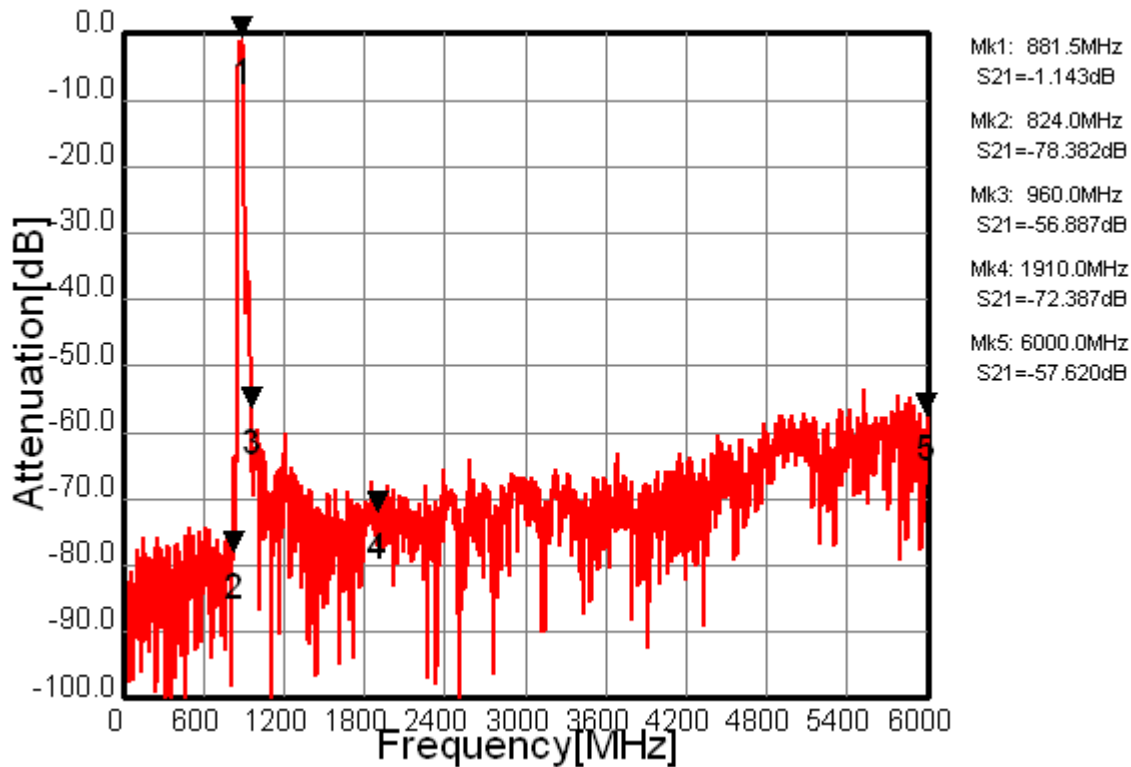


Fig.4 Wide-band Characteristics



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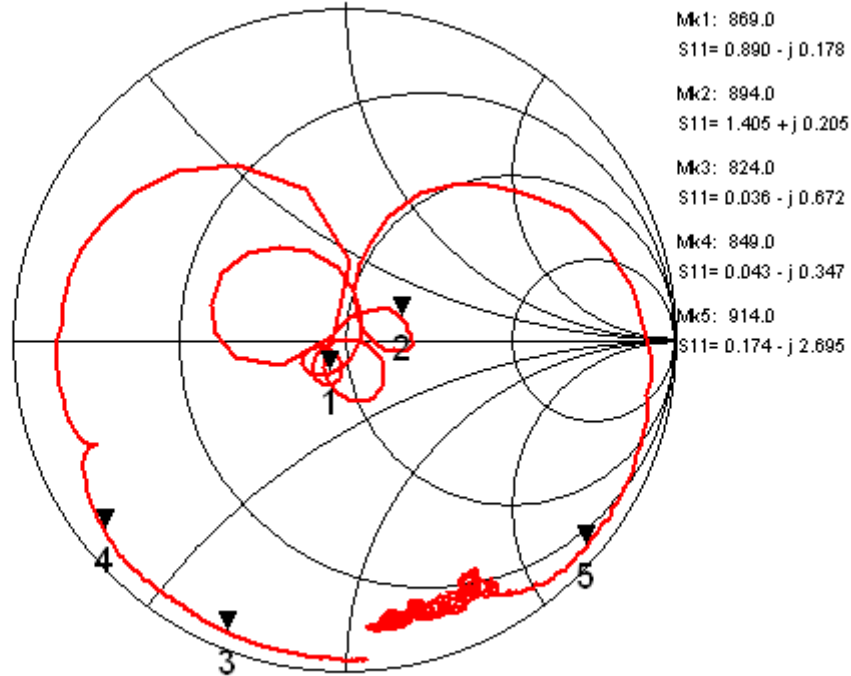


Fig.5 Input Impedance (Unbalance)

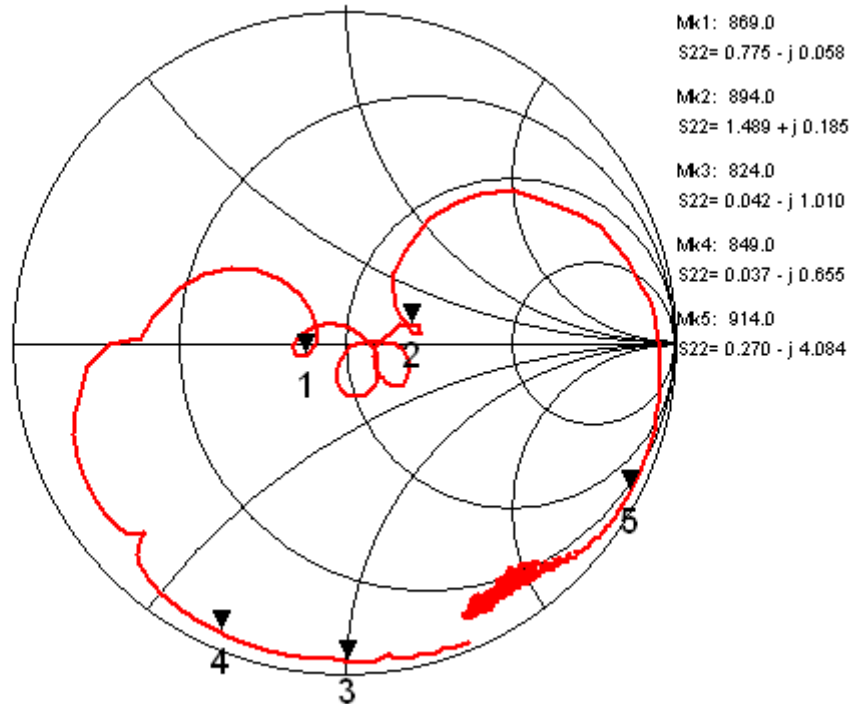


Fig.6 Output Impedance (Balance)



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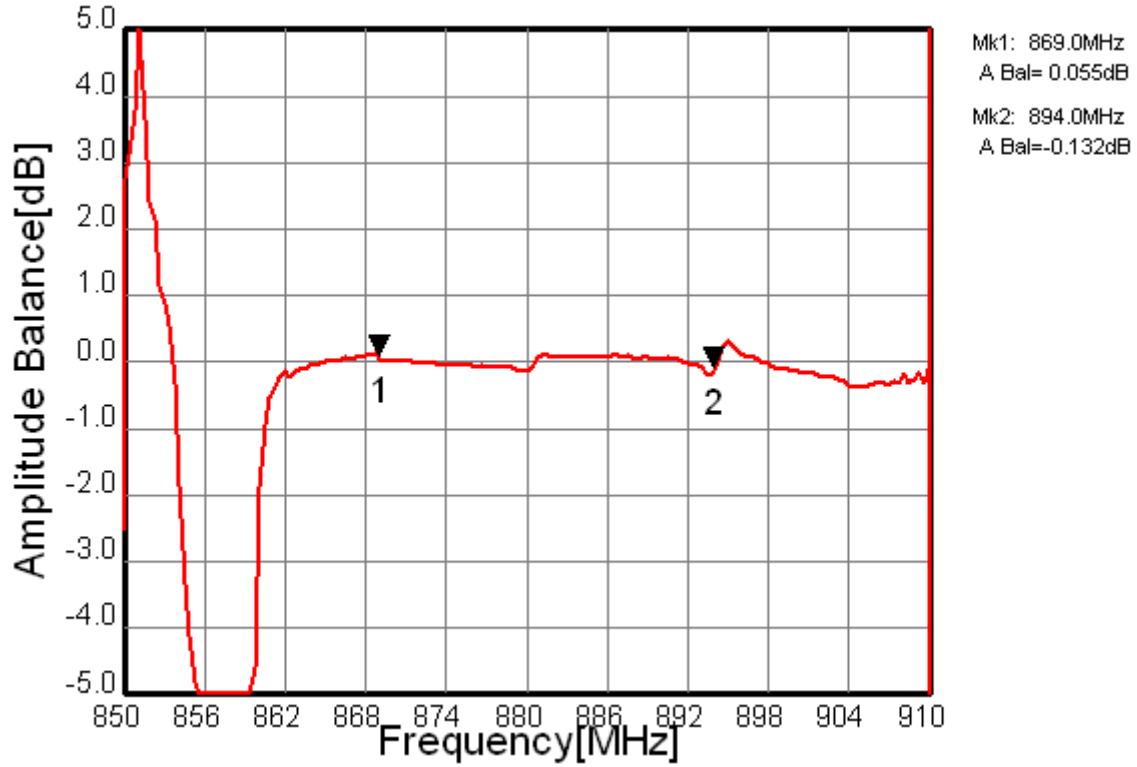


Fig.7 Amplitude Balance

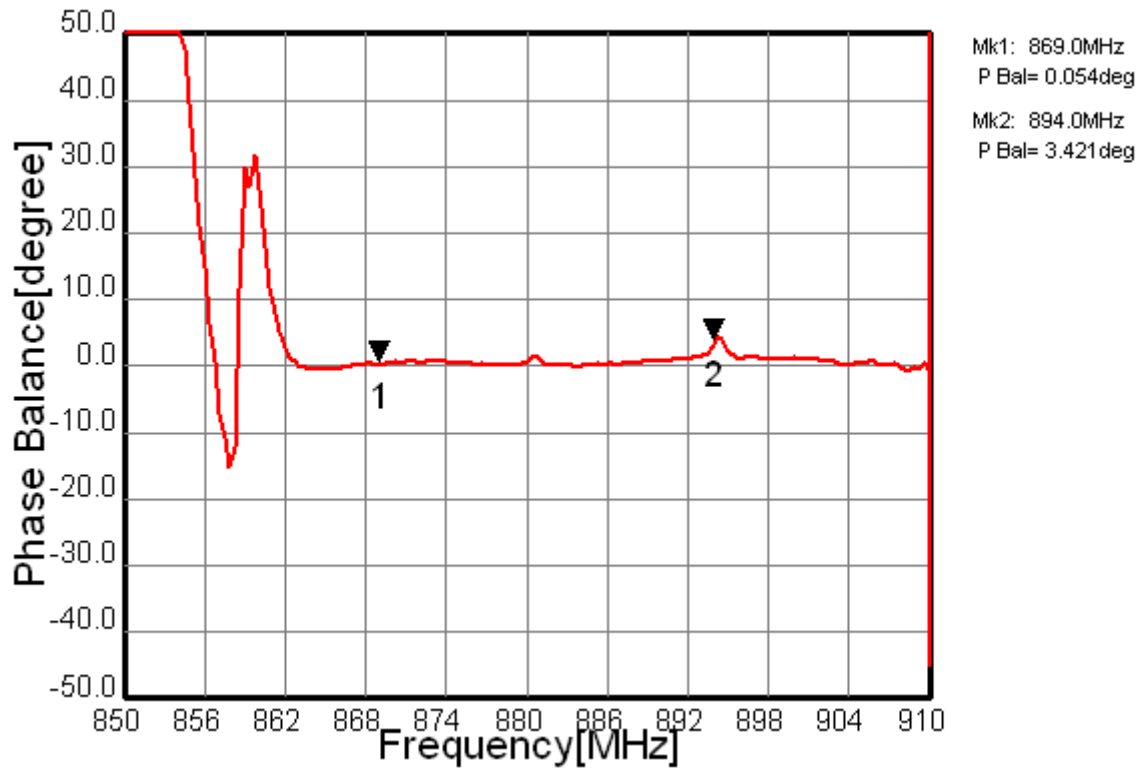


Fig.8 Phase Balance