



* Pb Free Part



MSL1

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	GSM850 Rx (50 / 150 ohm)	Date	March 31, 2010
Part Number	FAR-F5QB-881M50-P2BA	Version 3.0c	

Table 1. Electrical specifications

Pass Band (869-894MHz)						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	869-894	-	1.3	2.1	dB (*1)	
Ripple	869-894	-	0.5	1.1		
Absolute attenuation	DC-824	50	66	-	dB	
	824-849	50	63	-	dB	
	914-960	25	35	-	dB	
	960-2000	40	50	-	dB	
	2000-6000	30	45	-	dB	
Input VSWR	869-894	-	1.5	2.0	-	
Output VSWR	869-894	-	1.5	2.0	-	
Amplitude balance (S ₂₁ /S ₃₁)	869-894	-1.0	-0.2/+0.2	+1.0	dB	
Phase balance (∠S ₂₁ -∠S ₃₁ +180)	869-894	-10	-1/+3	+10	deg	
Input impedance (Unbalanced)		50			Ohm	
Output impedance (Balanced)		150			Ohm	
Operating temperature		-30 to +85			°C	

(*1) These data include loss that comes from the test board



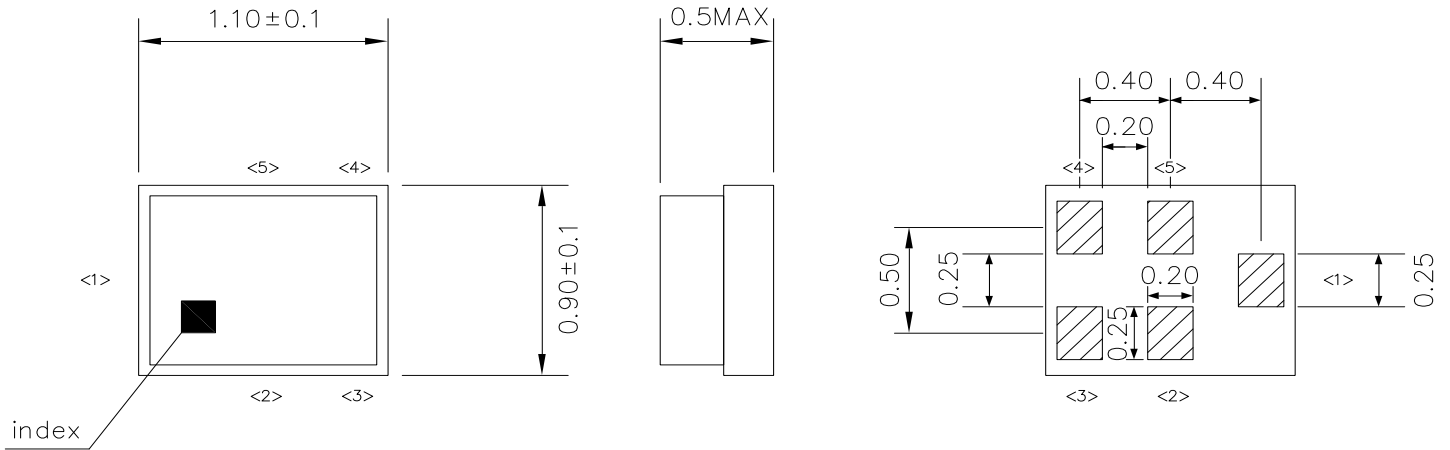
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Dimensions

Device size: 1.1yp. x 0.9typ. x 0.5max.

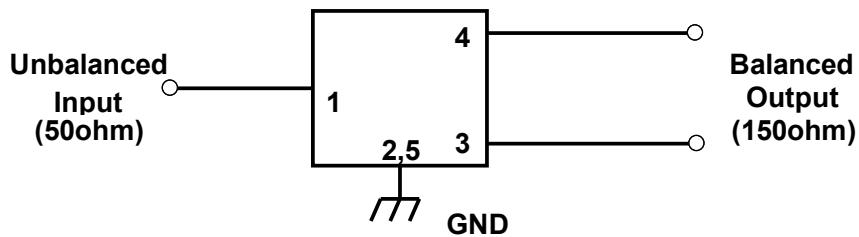


Unit : mm

Pin Configuration

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

Evaluation Circuit





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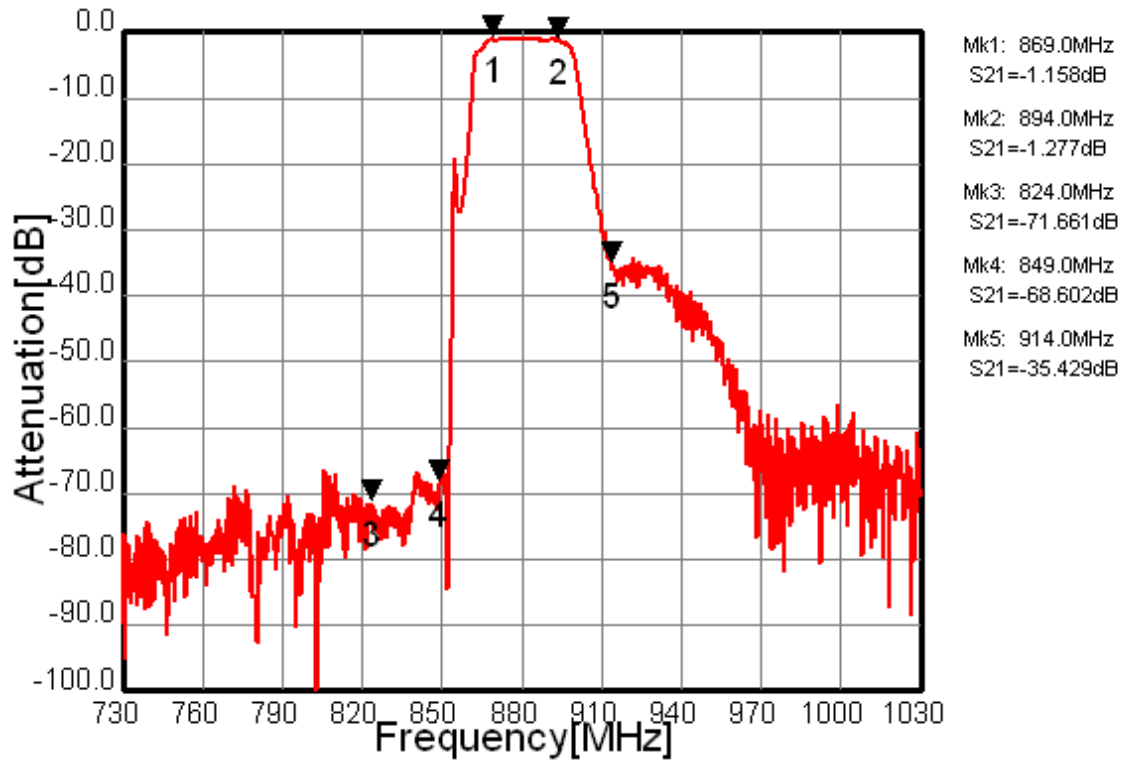


Fig.1 Pass-band Characteristic

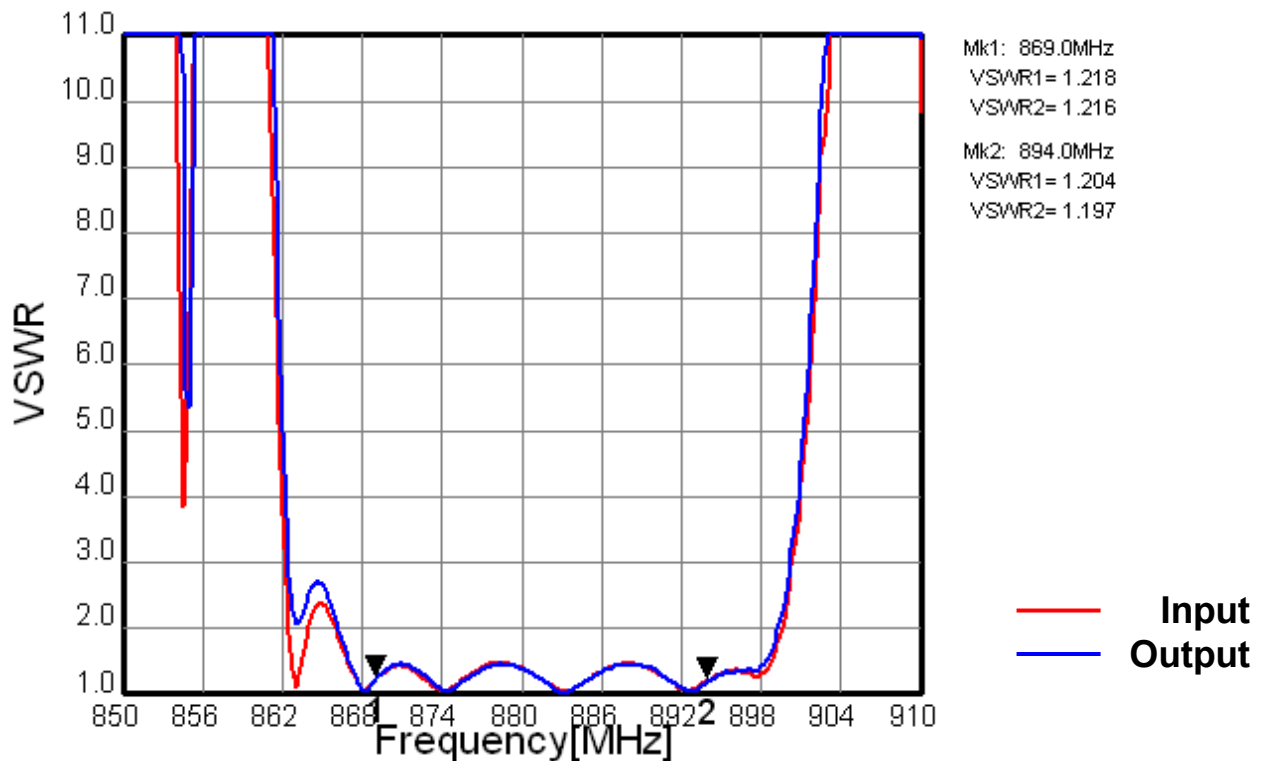


Fig.2 VSWR



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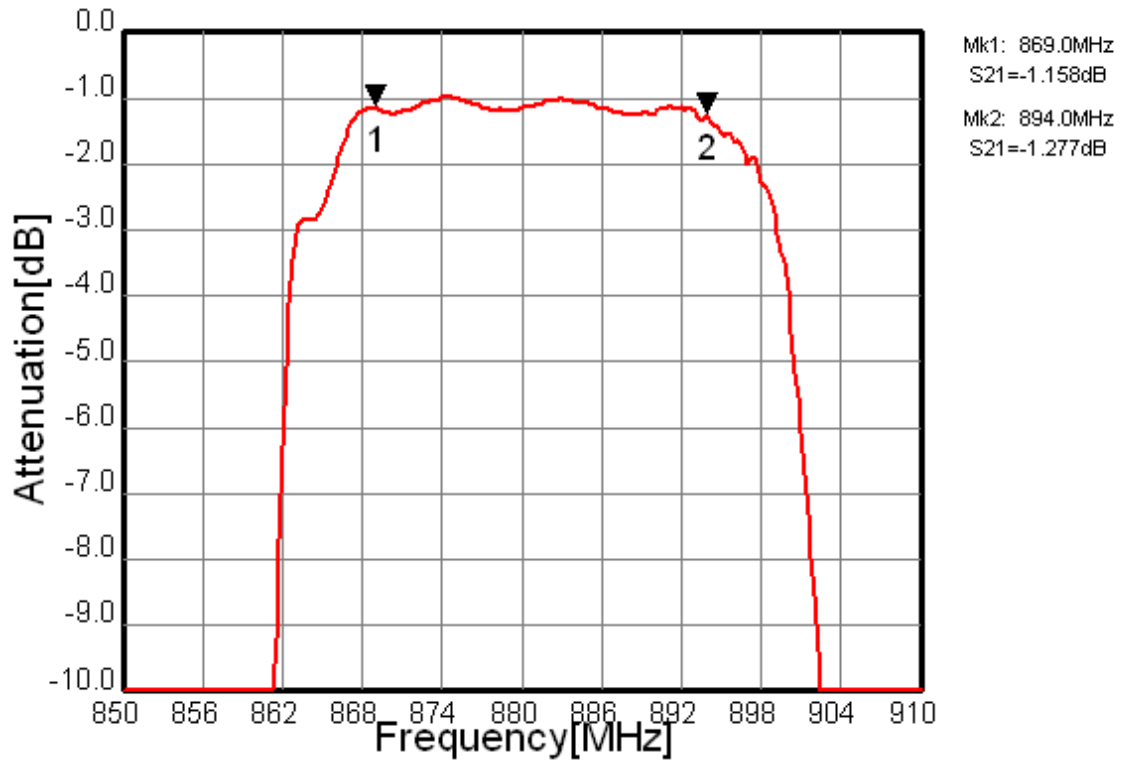


Fig.3 In-band Characteristic

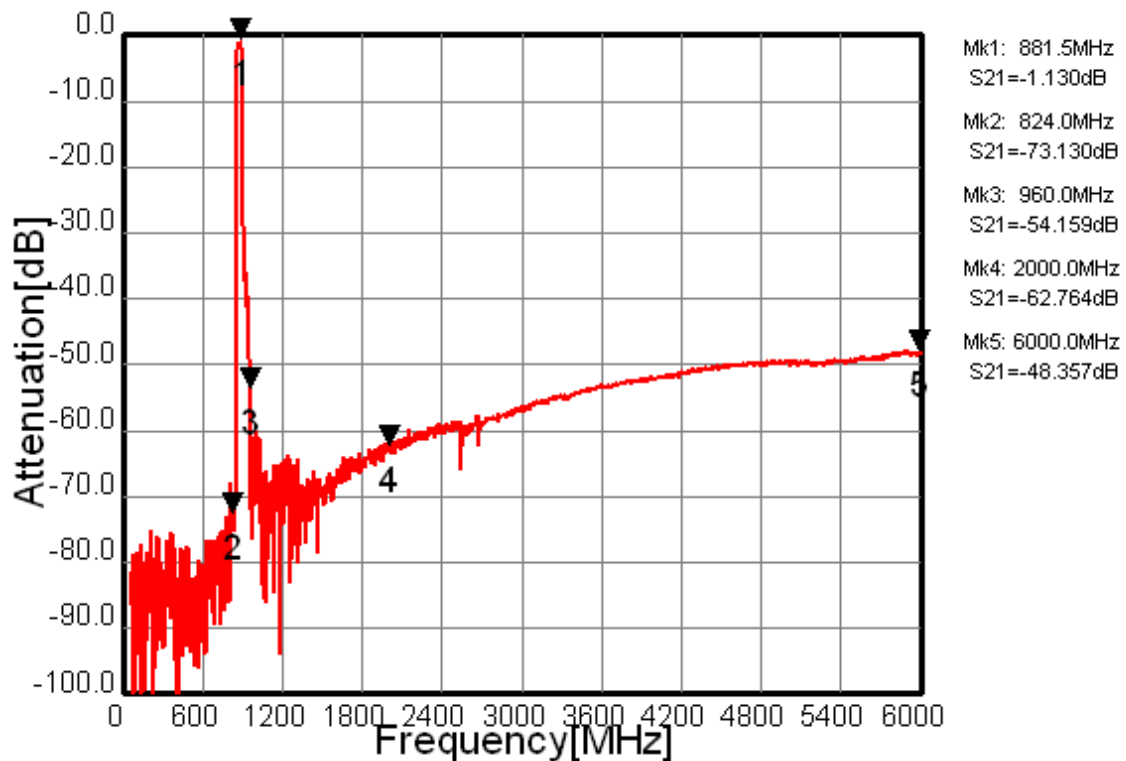


Fig.4 Wide-band Characteristic



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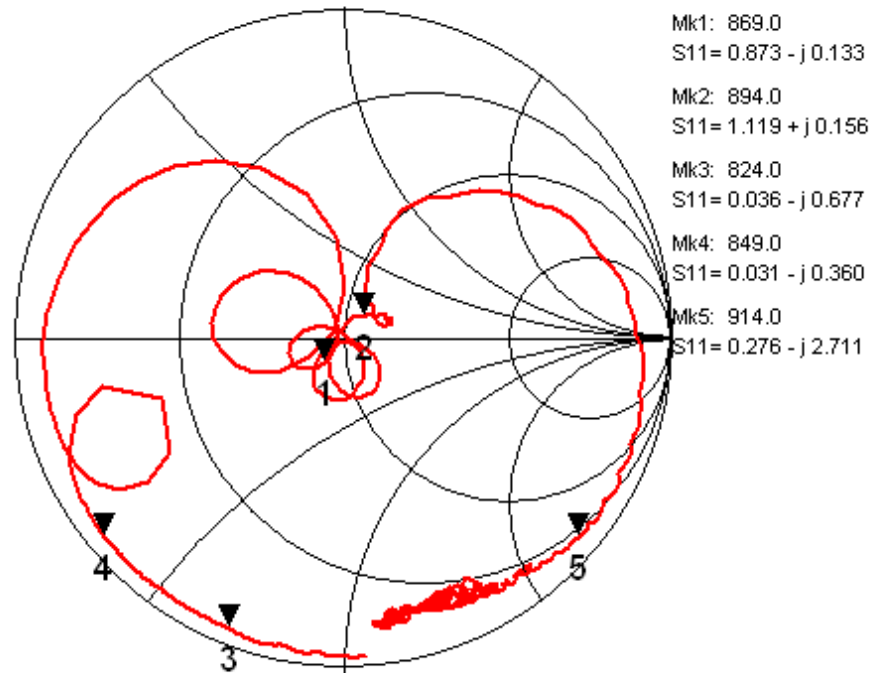


Fig.5 Impedance (S11)

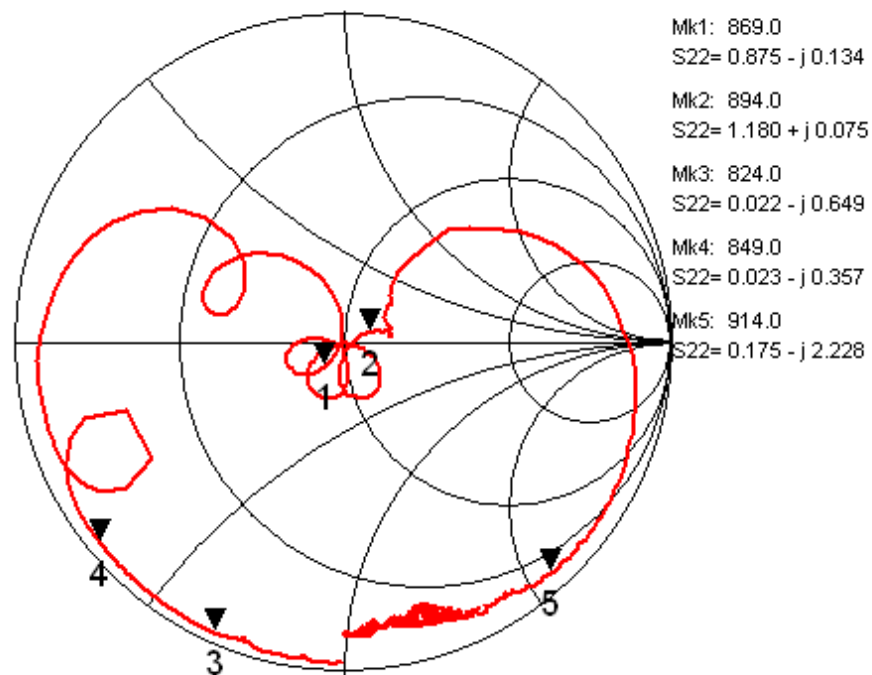


Fig.6 Impedance (S22)



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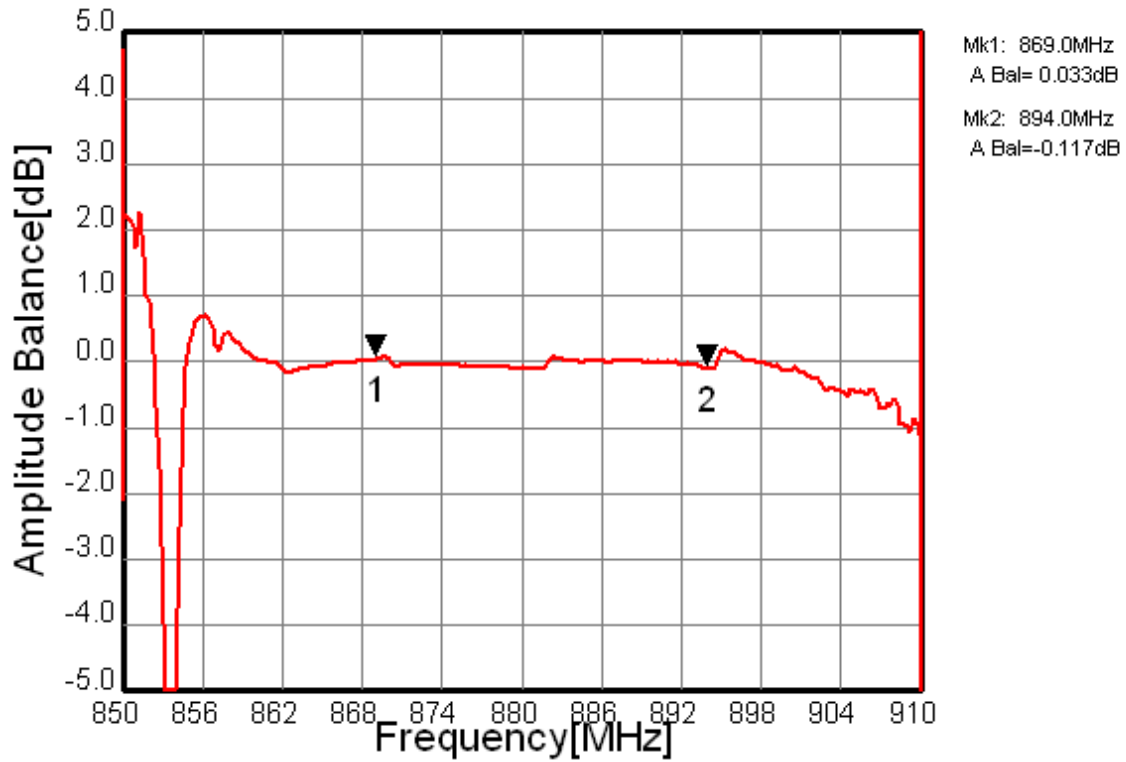


Fig.7 Amplitude Balance

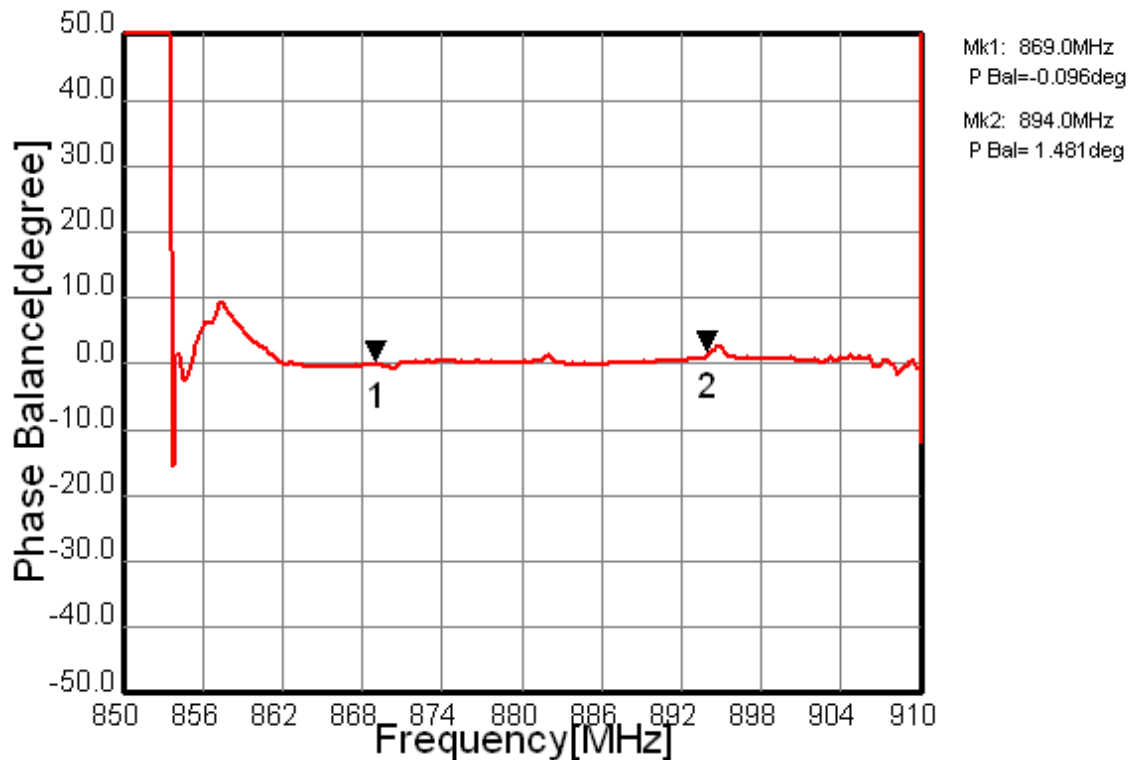


Fig.8 Phase Balance