



MSL1

\* Pb Free Part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	CDMA Tx (200/50ohm)	Date	March 31, 2010
Part Number	FAR-F5KB-836M50-B4EG	Version 3.1c	

Table 1. Electrical specifications

## Passband: 824 ~ 849 MHz

Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	824~849	-	1.6	2.6	dB	
Ripple	824~849	-	0.4	1.4	dB	
Absolute attenuation	DC~779	40	74	-	dB	
	779~804	25	40	-	dB	
	869~894	36	42	-	dB	
	894~6000	25	50	-	dB	
VSWR (Input)	824~849	-	1.7	2.1	-	
VSWR (Output)	824~849	-	1.7	2.1	-	
Amplitude balance ( S <sub>21</sub> /S <sub>31</sub>  )	824~849	-1.0	-0.1/+0.1	+1.0	dB	
Phase balance (∠S <sub>21</sub> -∠S <sub>31</sub> )+180)	824~849	-10	-1/+2	+10	deg.	
Input Impedance	Balanced	200			Ohm	
Output Impedance	Unbalance	50			Ohm	
Input Power	824~849	-	-	+13	dBm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ. x 1.0typ. x 0.5Max.			mm	



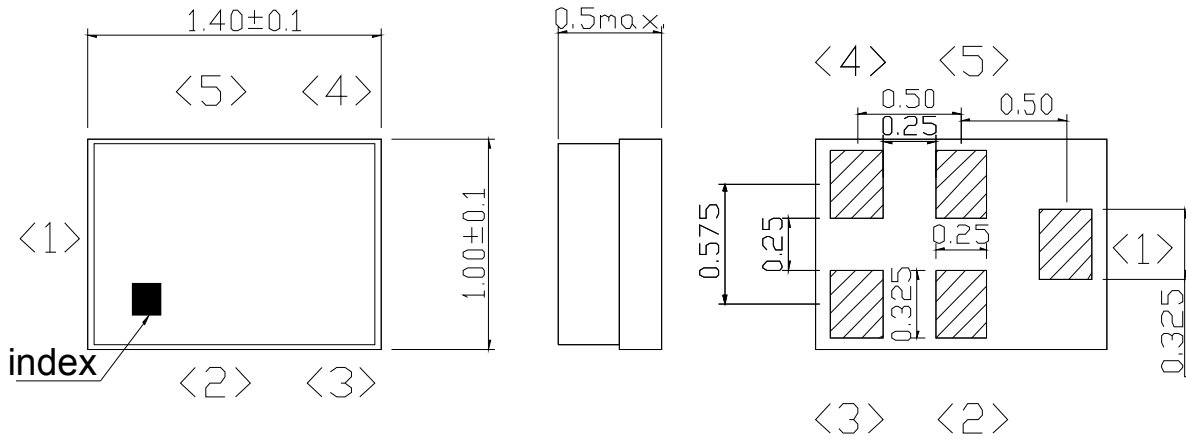
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**Dimensions**

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

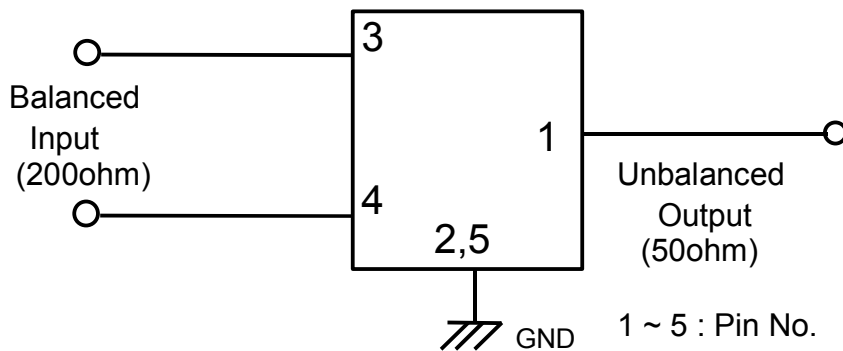


Unit : mm

**Pin Configuration**

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

**Test Condition**





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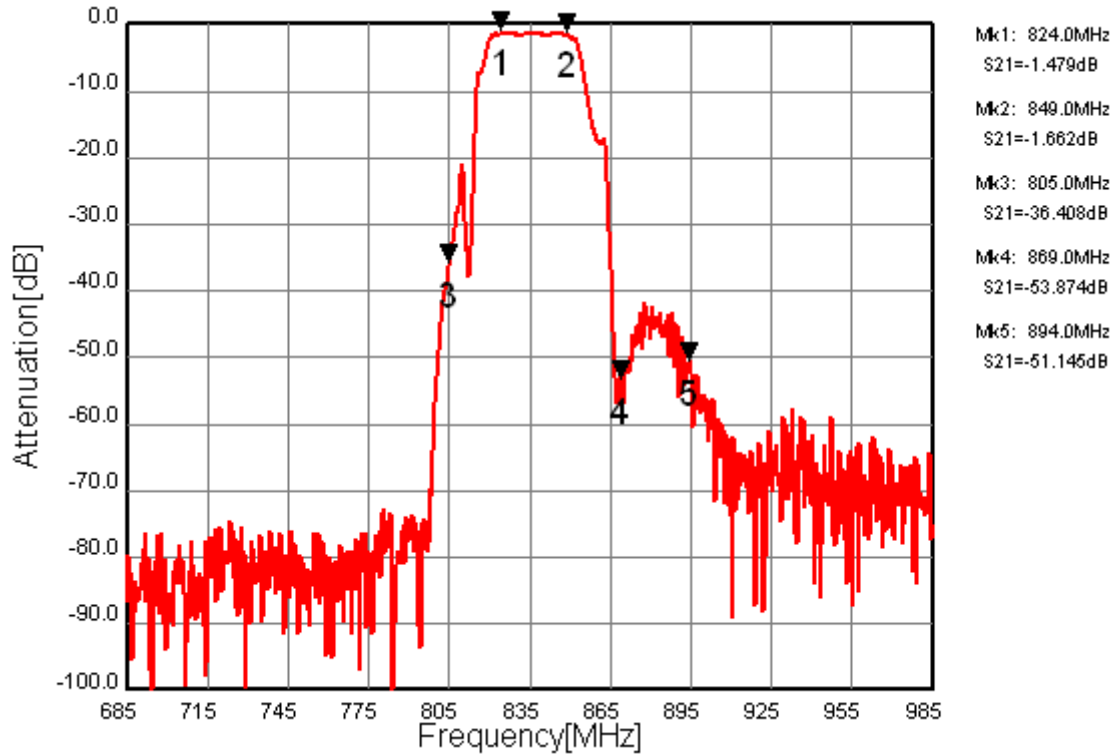


Fig.1 Pass-band Characteristics

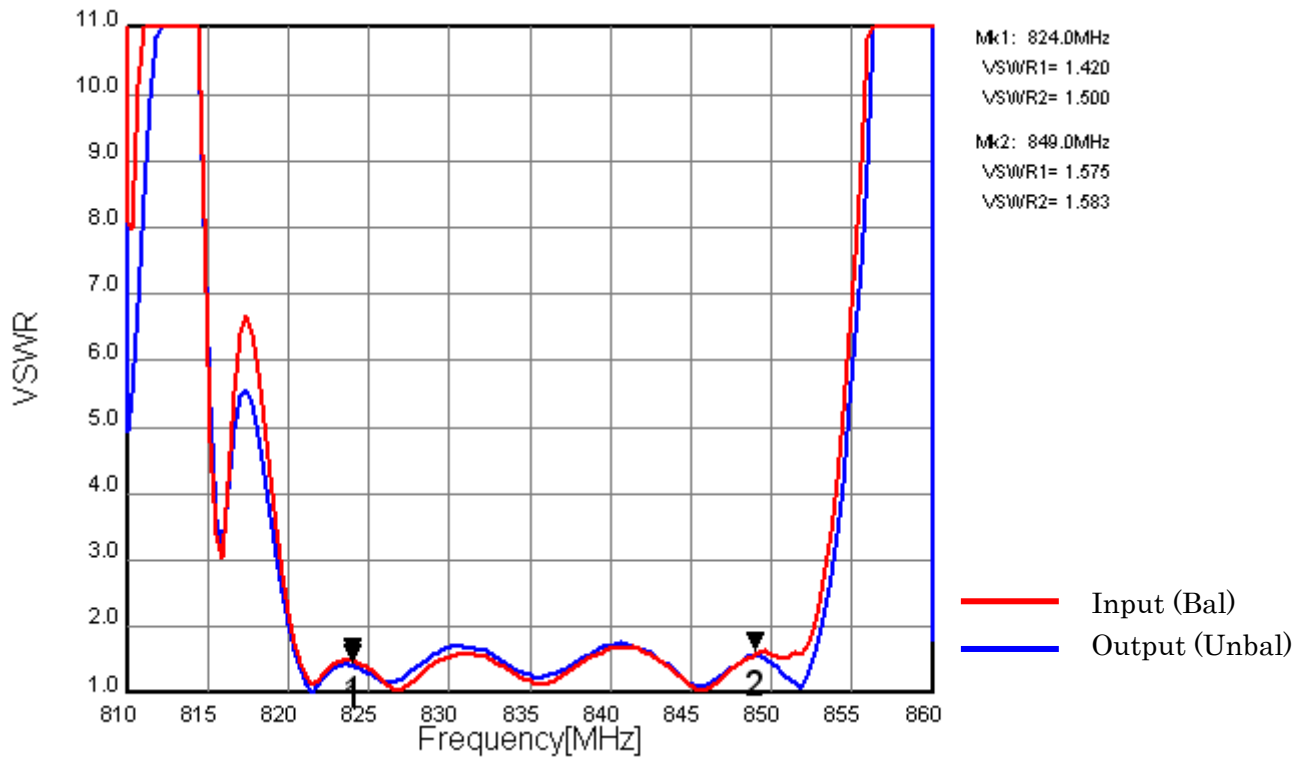


Fig.2 VSWR



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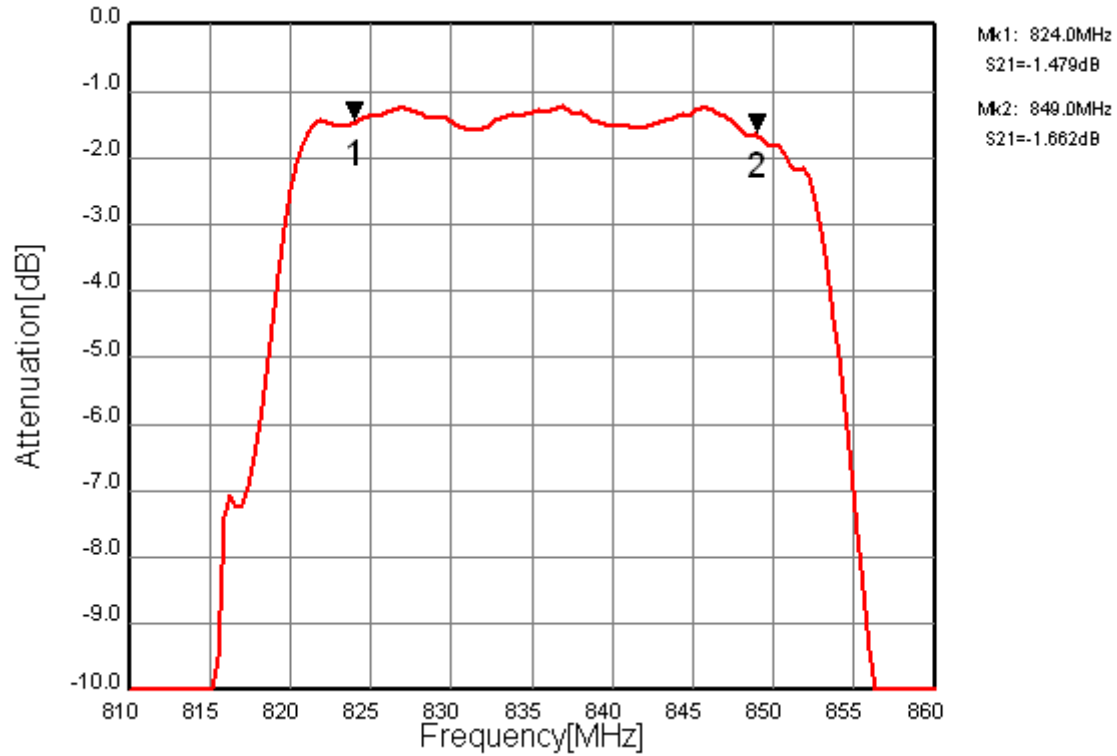


Fig.3 In-band Characteristics

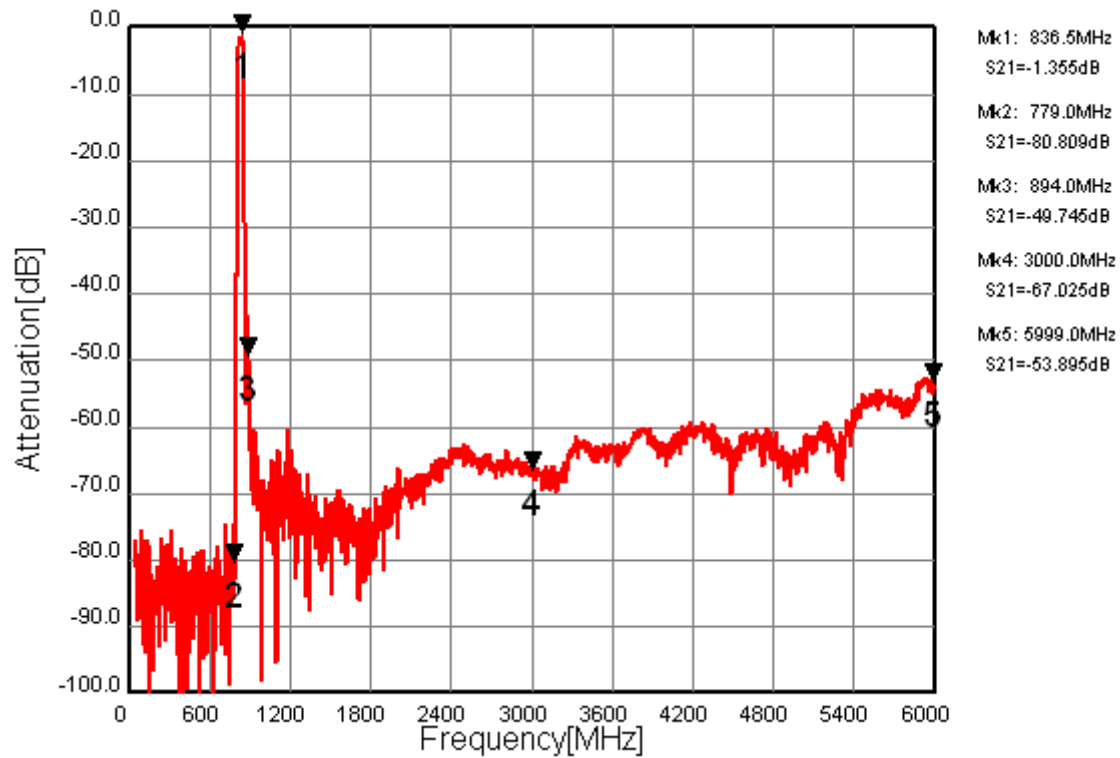


Fig.4 Wide-band Characteristics



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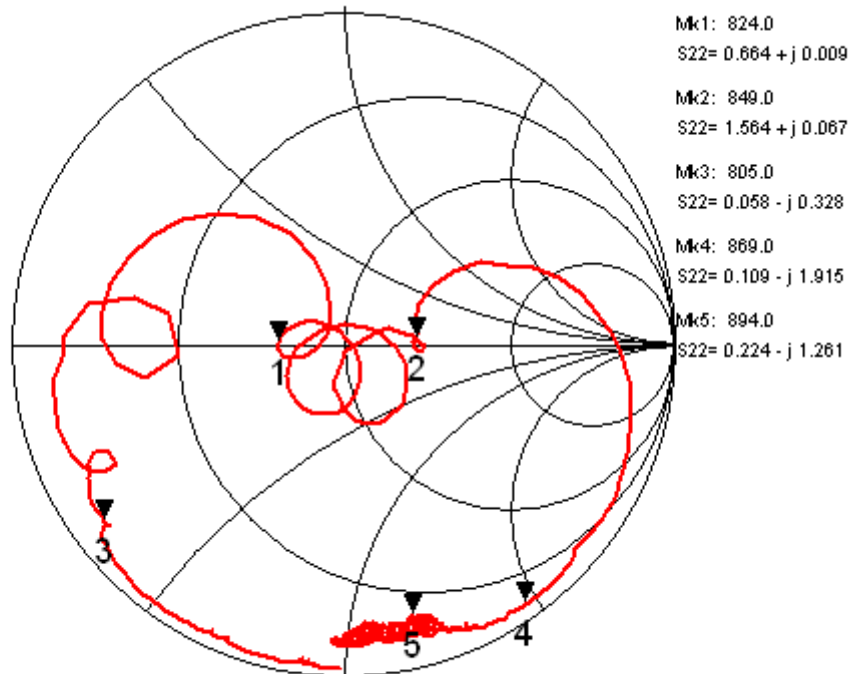


Fig.5 Input Impedance (Balance)

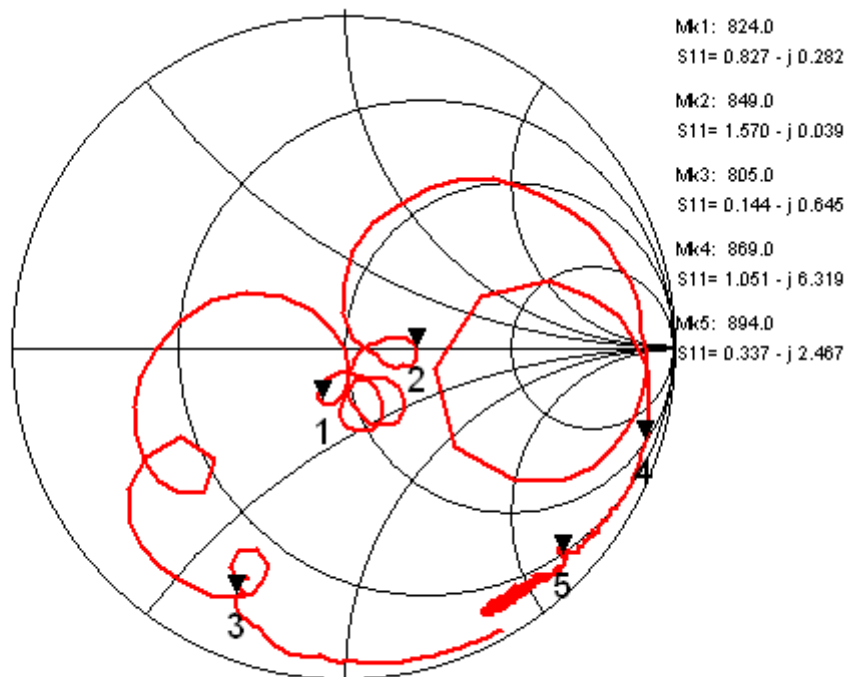


Fig.6 Output Impedance (Unbalance)



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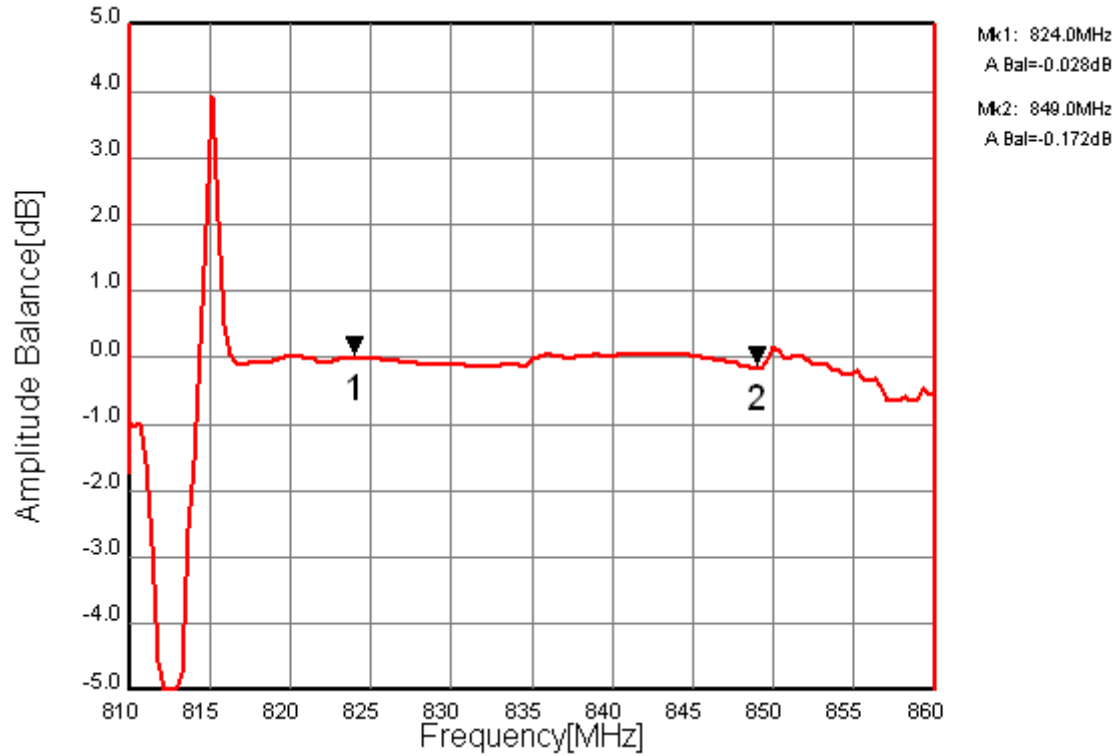


Fig.7 Amplitude Balance

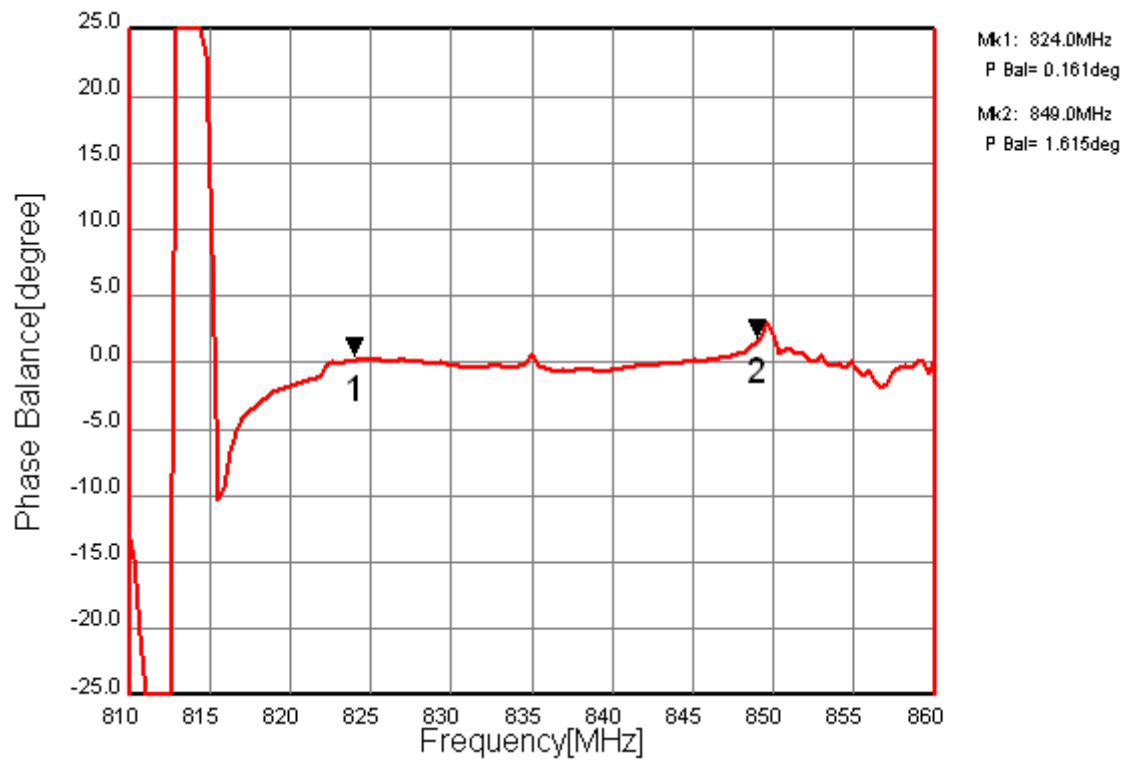


Fig.8 Phase Balance

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