



MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	JCDMA-Rx (50/100ohms)	Date	March 31, 2010
Part Number	FAR-F5KB-859M00-B4EE	Version 2.0b	

Table 1. Electrical specifications

Passband:843~ 875 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	843~875 MHz	-	1.8	3.2	dB	
Ripple	843~875 MHz	-	0.7	2.0	dB	
Absolute attenuation	DC~750 MHz	50	70	-	dB	
	750~815 MHz	50	60	-	dB	
	815~830 MHz	18	40	-	dB	
	898~925 MHz	30	35	-	dB	
	925~960 MHz	35	44	-	dB	
	960~3000 MHz	40	55	-	dB	
	3300~3500 MHz	40	55	-	dB	
VSWR(Input)	843~875 MHz	-	1.8	2.2	-	
VSWR(Output)	843~875 MHz	-	1.8	2.4	-	
Amplitude balance (S ₂₁ /S ₃₁)	843~875 MHz	-1.0	-0.2/0.4	+1.0	dB	
Phase balance ((∠S ₂₁ -∠S ₃₁)+180)	843~875Hz	-10	-0.9/4.0	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	100			Ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		1.4typ.x1.0typ.x0.5max.			mm	



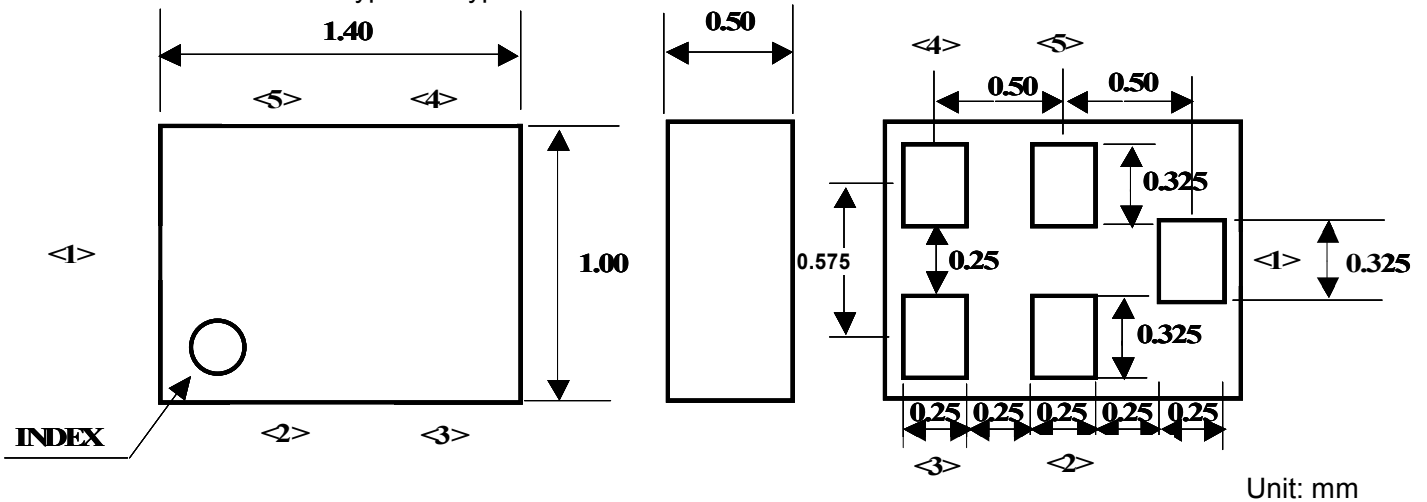
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Dimension

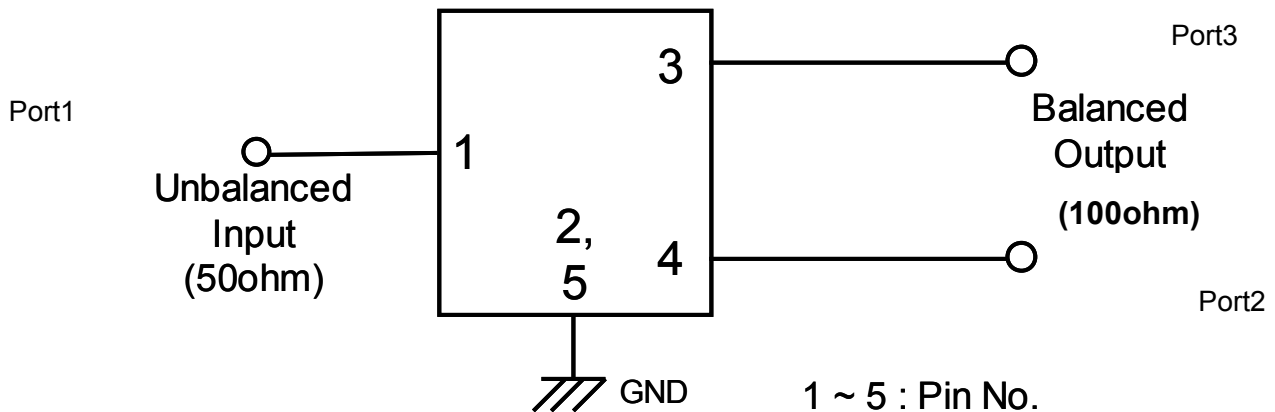
Device size: 1.4typ. x 1.0typ. x 0.5max.



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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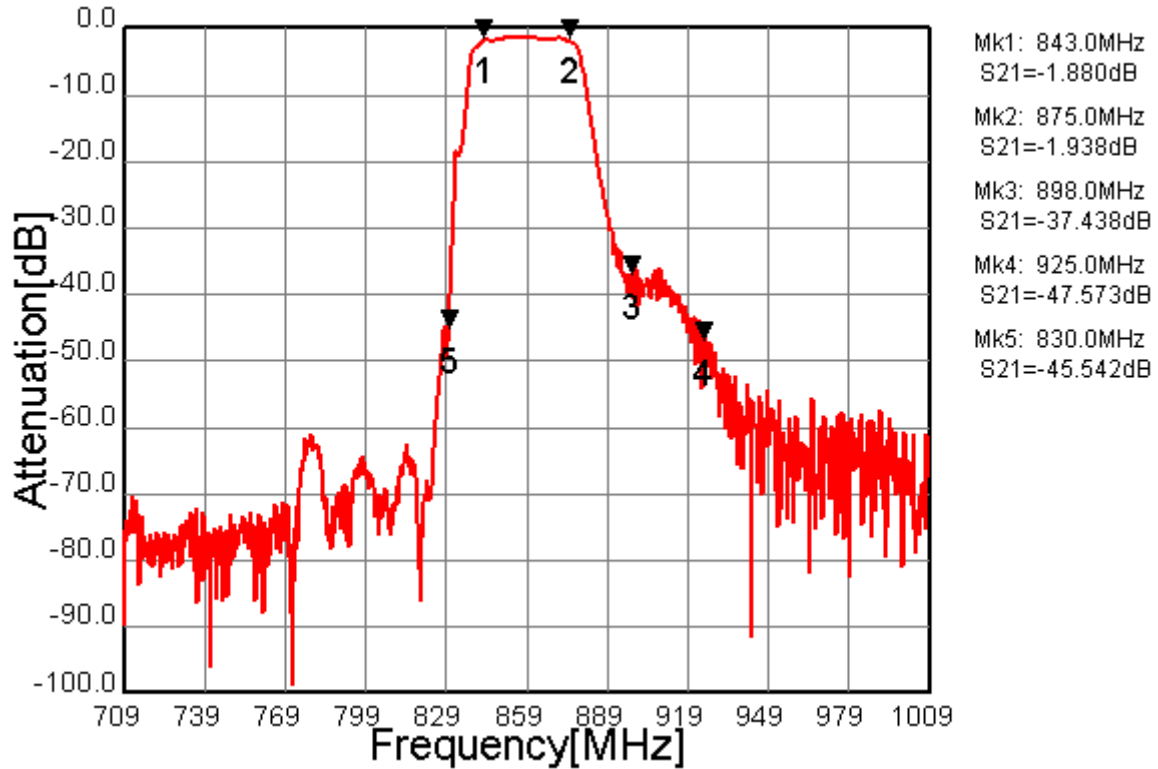


Fig.1 Pass-band Characteristics

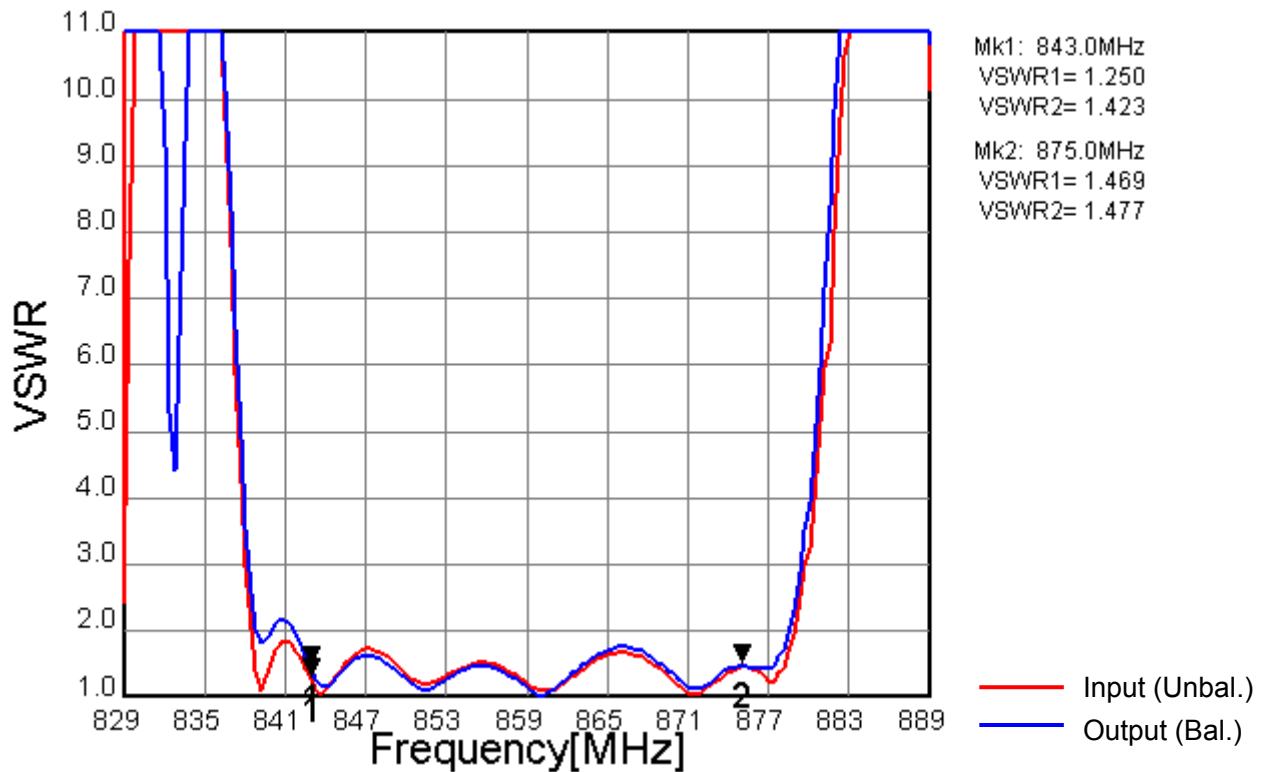


Fig.2 VSWR



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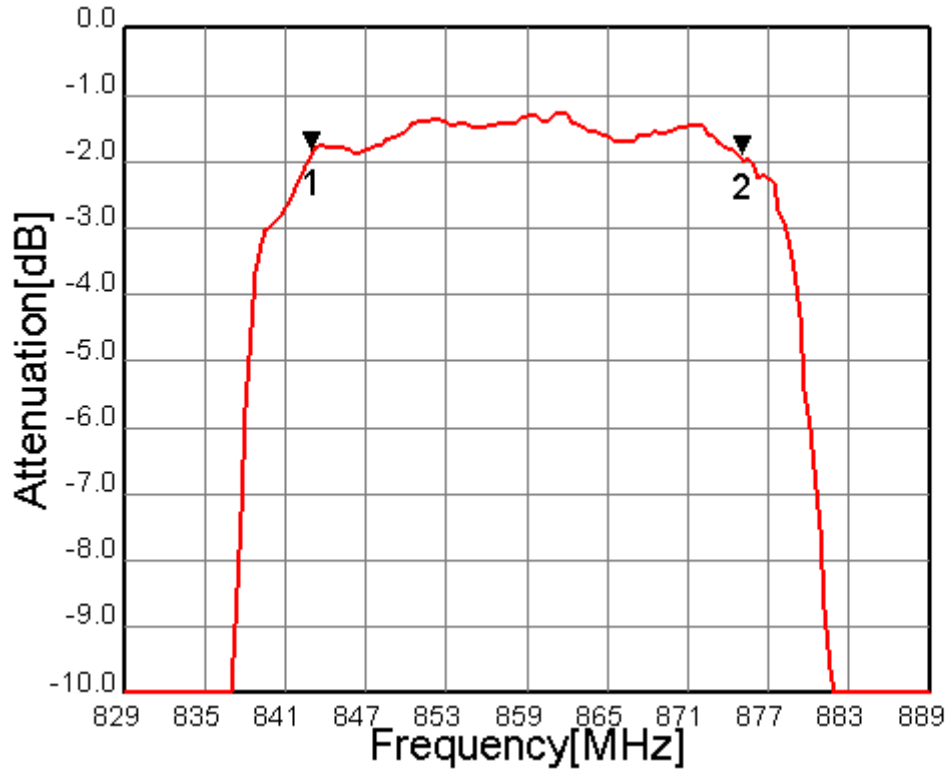


Fig.3 In-band Characteristics

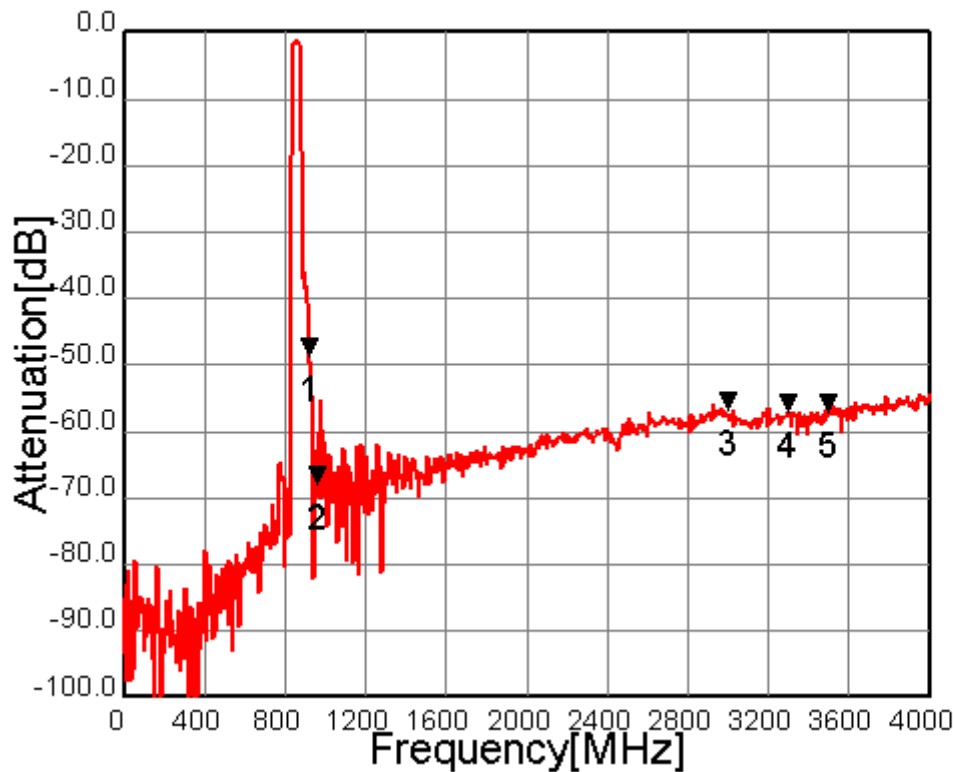


Fig.4 Wide-band Characteristics



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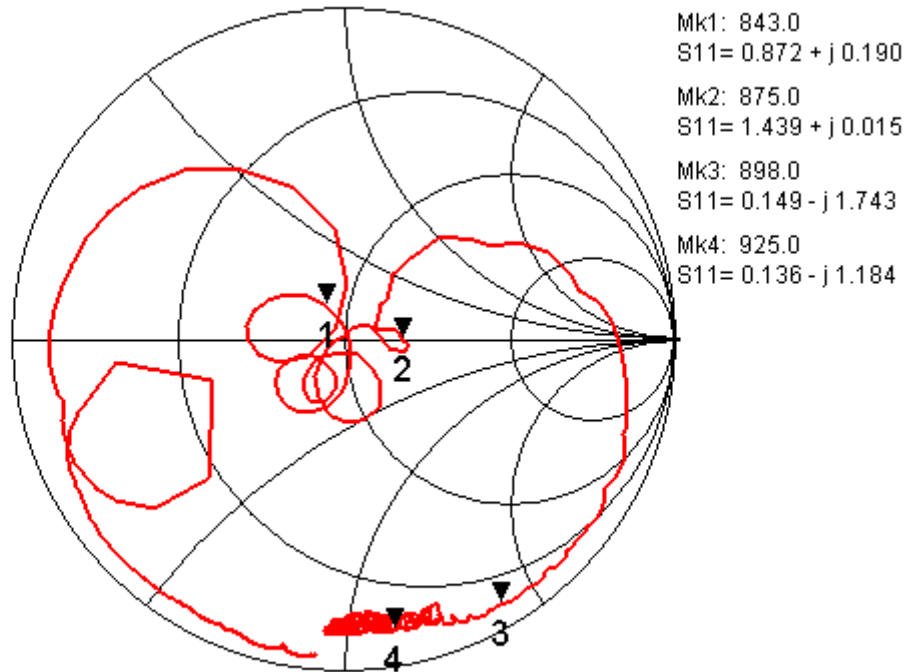


Fig.5 Input Impedance (Unbalance)

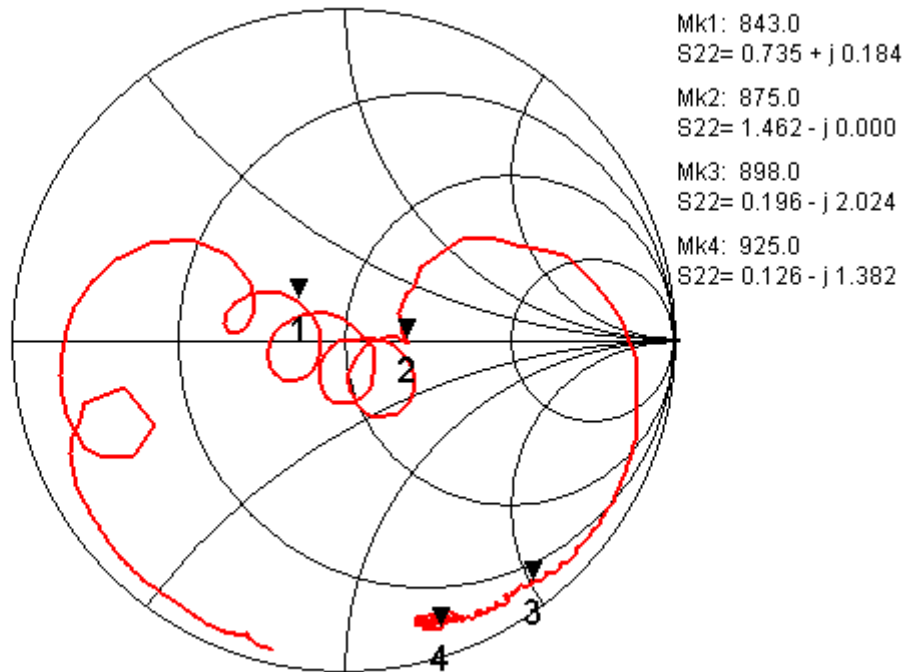


Fig.6 Output Impedance (Balance)



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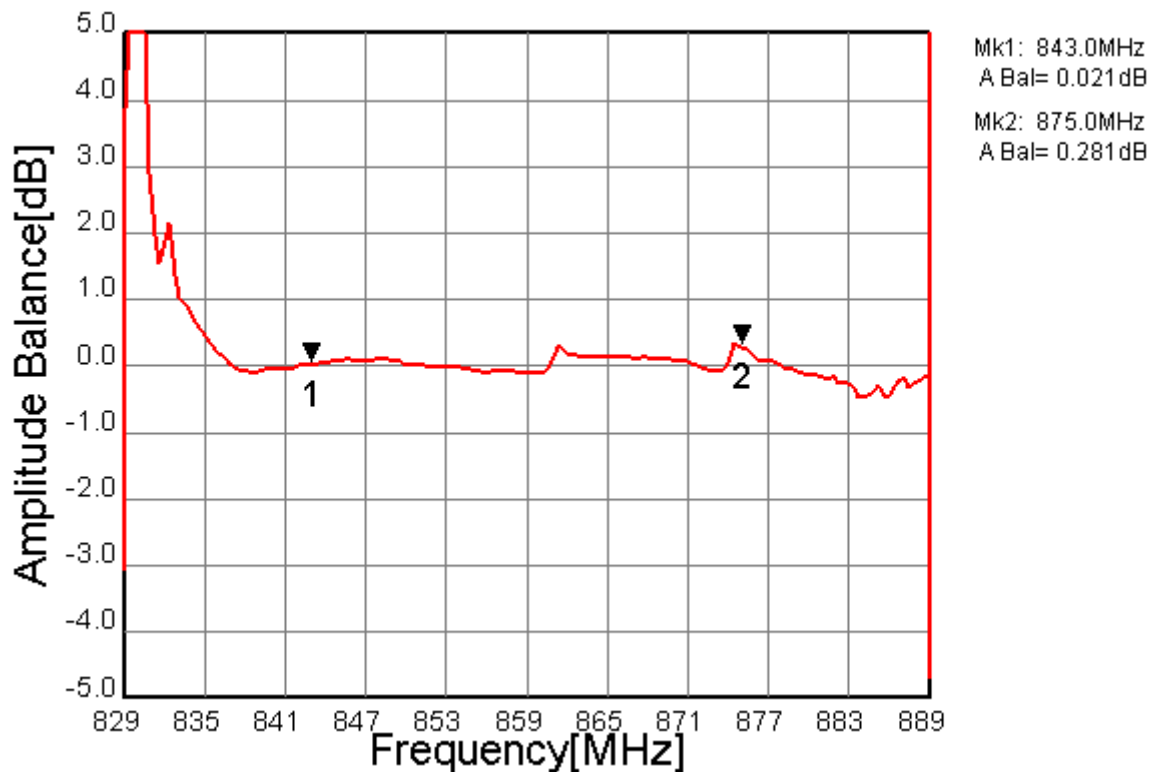


Fig.7 Amplitude Balance

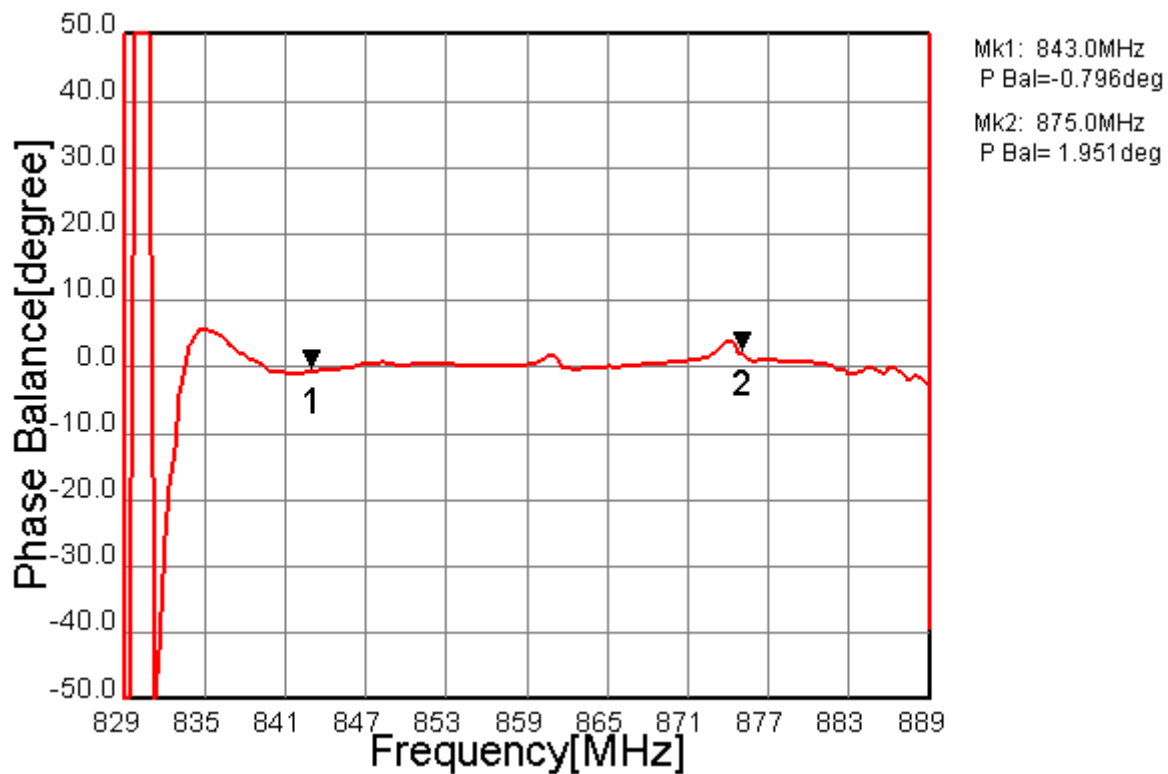


Fig.8 Phase Balance