

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	GSM850 Rx (50/100ohms)	DATE	Sept. 14, 2004
FMD Part Number	FAR-F5EB-881M50-B2JJ	Version 2.0d	

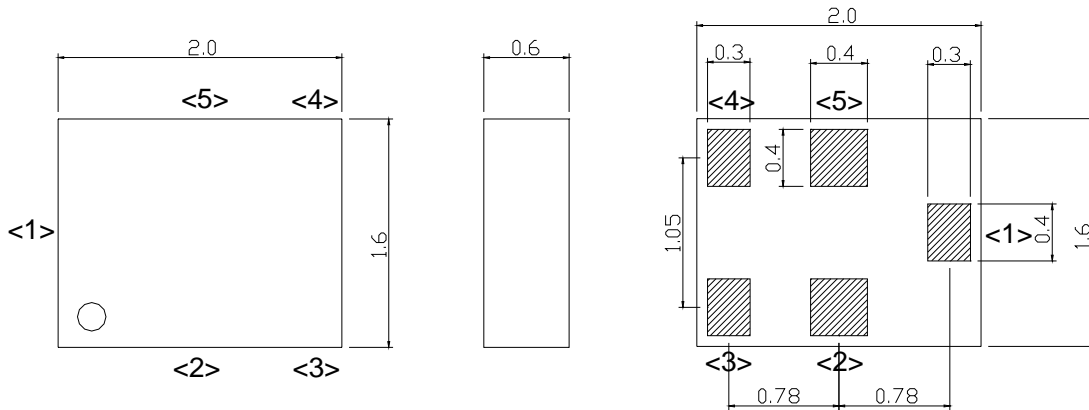
Table 1. Electrical specifications

Passband:869 ~ 894 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	869~894 MHz	-	1.5	2.3	dB	
Ripple	869~894 MHz	-	0.4	1.2	dB	
Absolute attenuation	DC~824 MHz	50	68	-	dB	
	824~849 MHz	35	53	-	dB	
	915~960 MHz	23	29	-	dB	
	960~2000 MHz	40	65	-	dB	
	2000~6000 MHz	35	50	-	dB	
VSWR(Input)	869~894 MHz	-	1.4	2.0	-	
VSWR(Output)	869~894 MHz	-	1.5	2.0	-	
Amplitude balance ($ S_{21}/S_{31} $)	869~894 MHz	-1.0	-0.1/+0.5	+1.0	dB	
Phase balance ($(\Phi S_{21}-\Phi S_{31})+180$)	869~894 MHz	-8	-1.3/+2.5	+8	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	100			Ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		2.0typ.x1.6typ.x0.6max.			mm	

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Dimensions

Device size: 2.0typ. x 1.6typ. x 0.6max

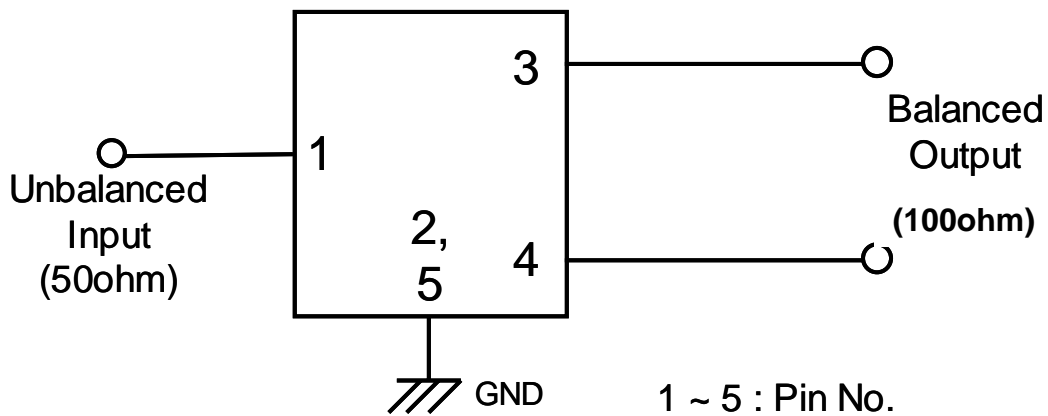


Unit: mm

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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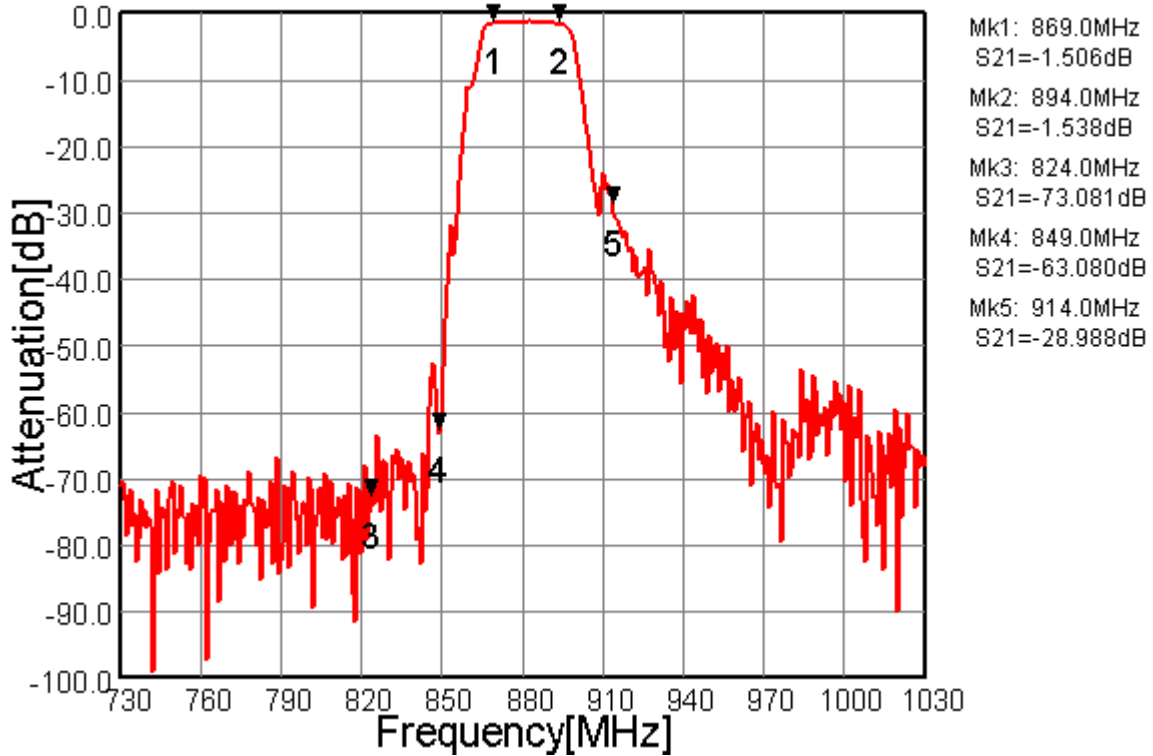


Fig.1 Pass-band Characteristics

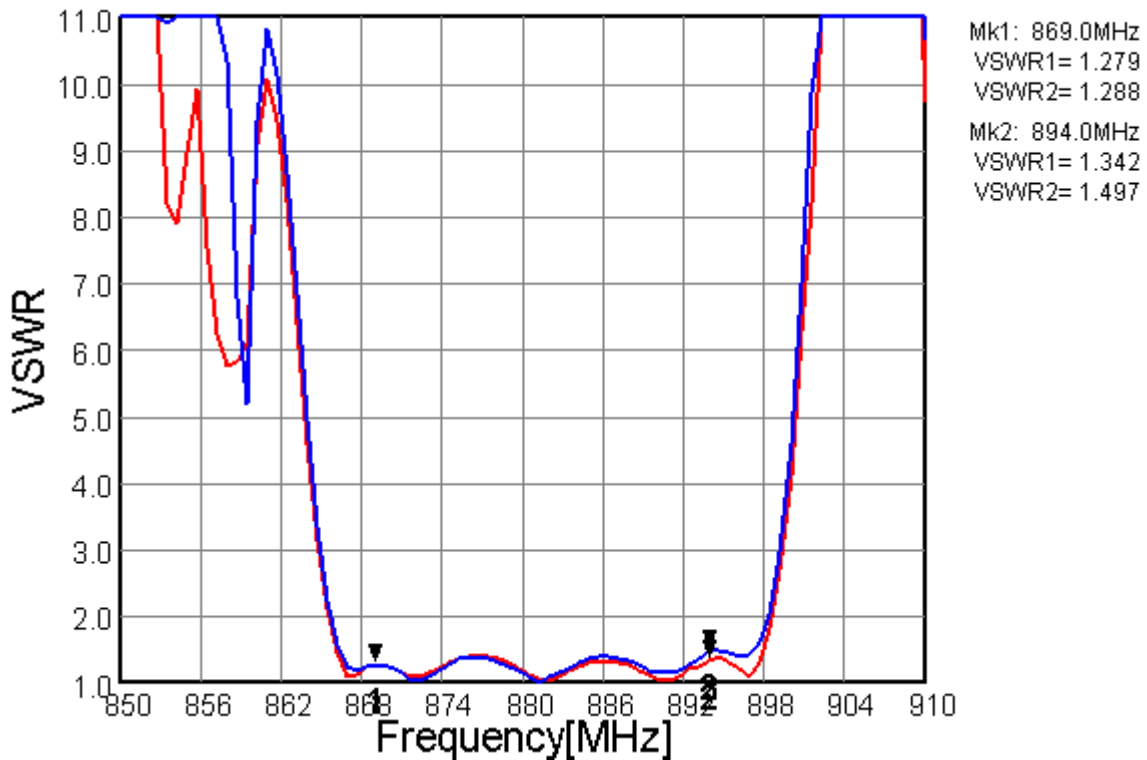


Fig.2 VSWR

— Unbal
— Bal

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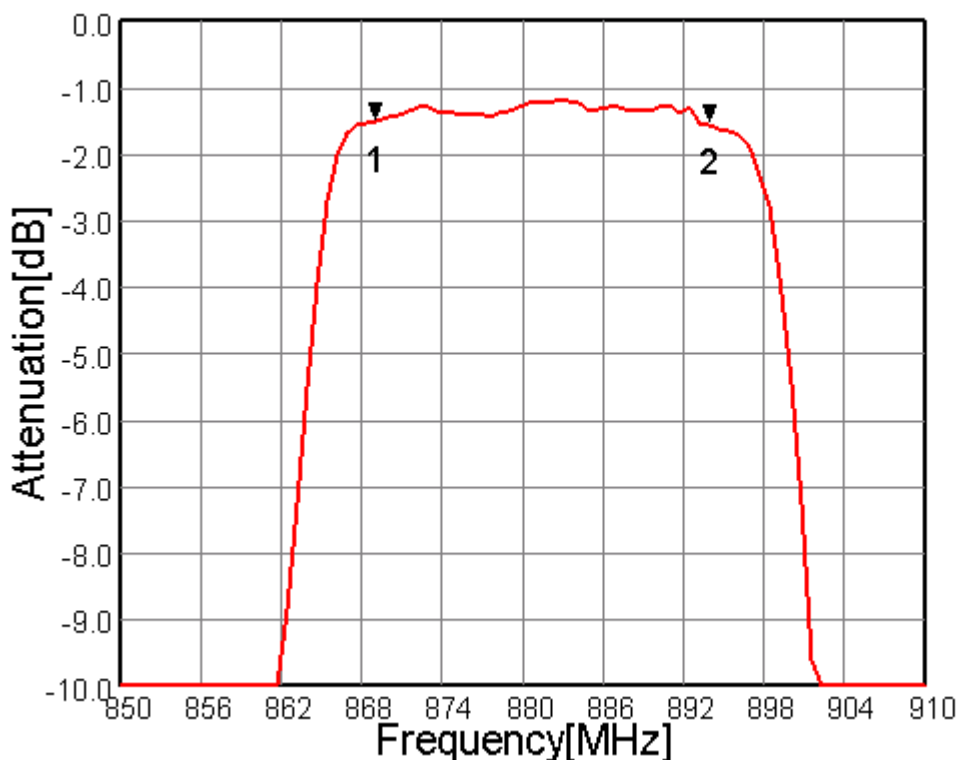


Fig.3 In-band Characteristics

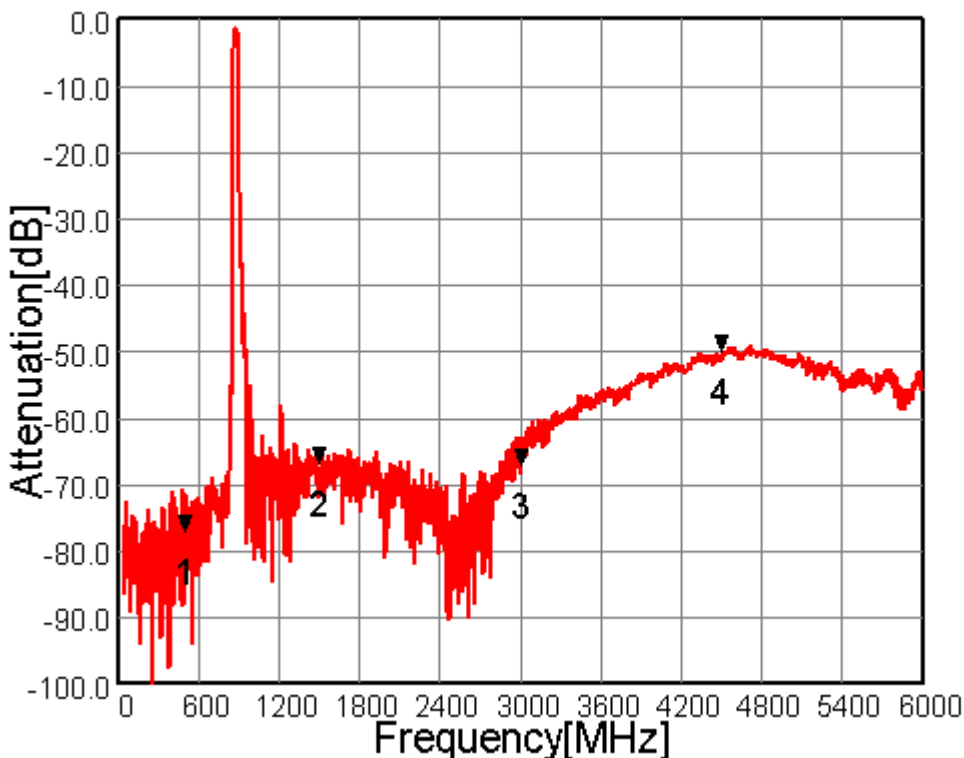


Fig.4 Wide-band Characteristics

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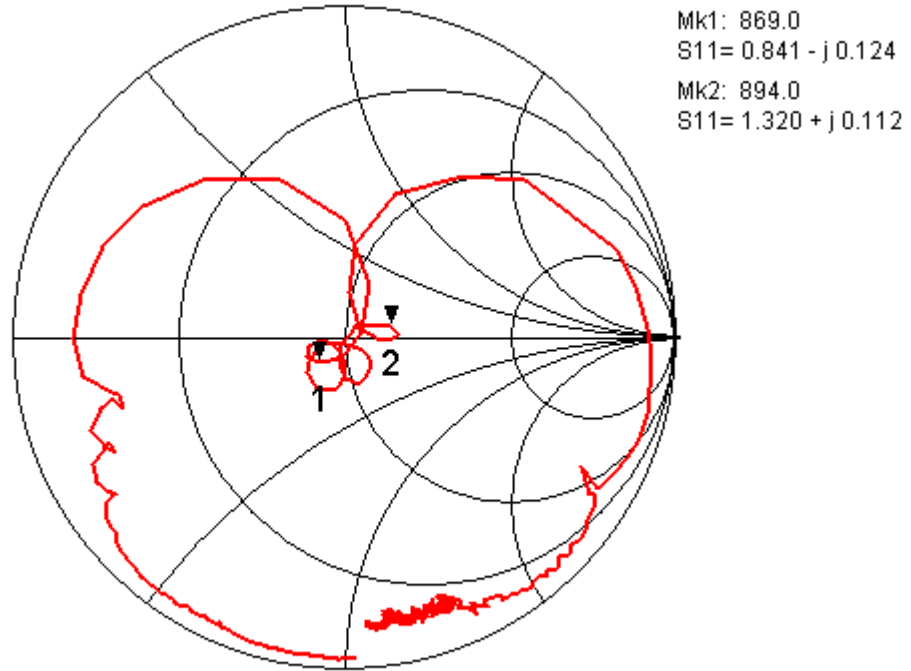


Fig.5 Input Impedance (Unbalance)

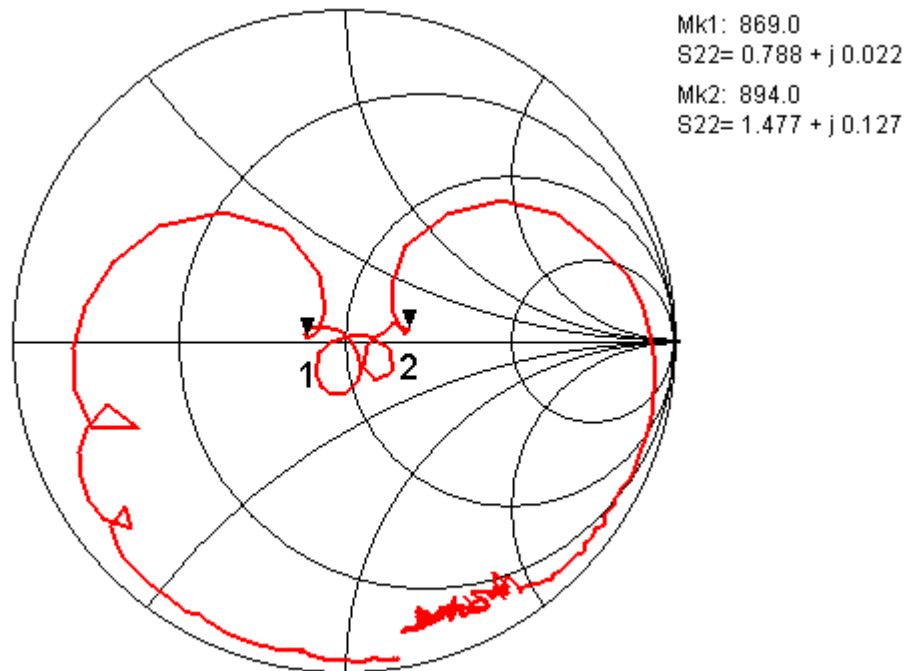


Fig.6 Output Impedance (Balance)

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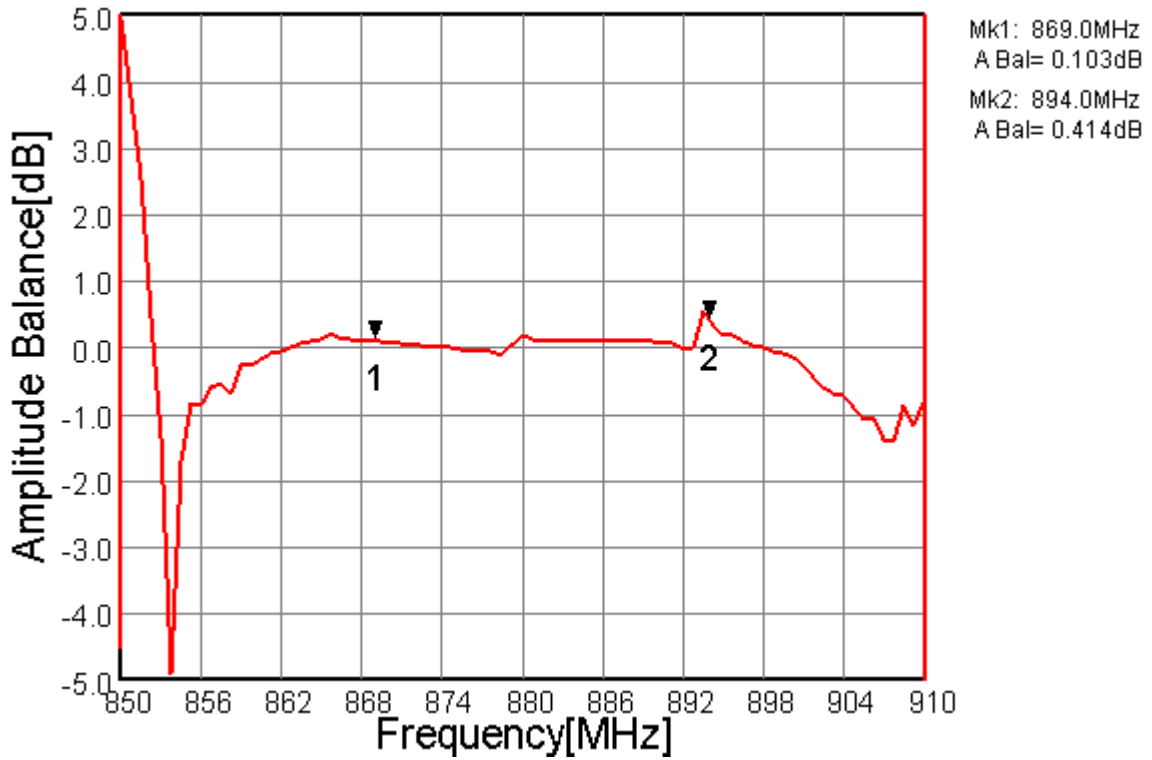


Fig.7 Amplitude Balance

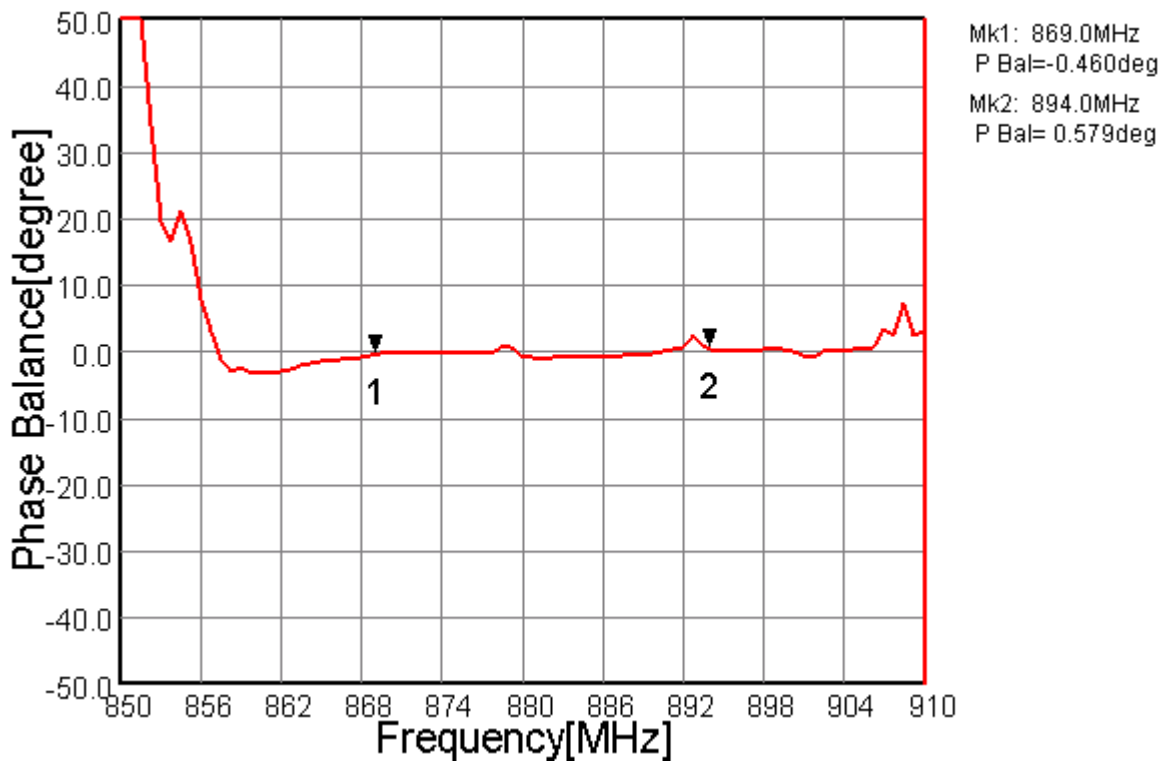


Fig.8 Phase Balance