

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	GSM850 Rx (50/150ohms)	DATE	Apr.26, 2004
FMD Part Number	FAR-F5EB-881M50-B28W	Version 1.1c	

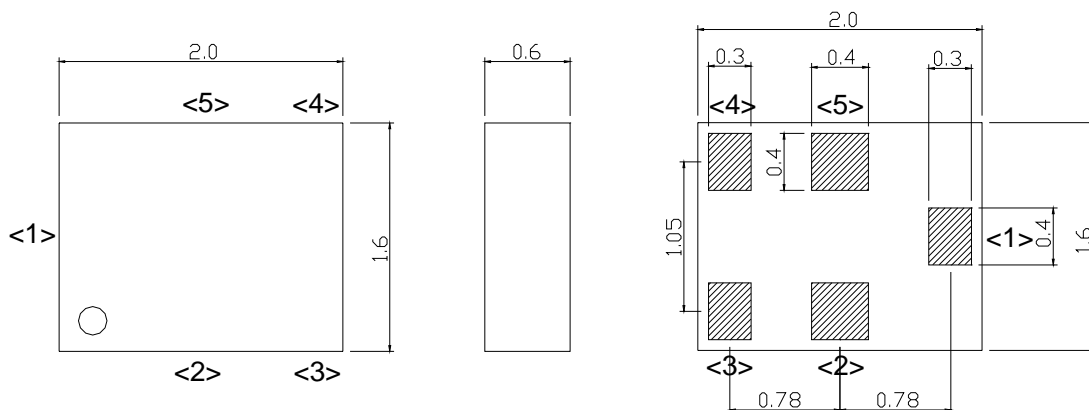
Table 1. Electrical specifications

Passband:869 ~ 894 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	869~894 MHz	-	1.6	2.3	dB	
Ripple	869~894 MHz	-	0.6	1.0	dB	
Absolute attenuation	DC~824 MHz	45	61	-	dB	
	824~849 MHz	35	42	-	dB	
	914~960 MHz	20	25	-	dB	
	960~2000 MHz	40	54	-	dB	
	2000~6000 MHz	40	53	-	dB	
VSWR(Input)	869~894 MHz	-	1.6	2.0	-	
VSWR(Output)	869~894 MHz	-	1.6	2.0	-	
Amplitude balance ($ S_{21}/S_{31} $)	869~894 MHz	-0.7	-0.1/+0.3	+0.7	dB	
Phase balance ($(\Phi S_{21}-\Phi S_{31})+180$)	869~894 MHz	-7	-1.3/+1.4	+7	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	150			Ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		2.0typ.x1.6typ.x0.6max.			mm	

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	GSM850 Rx (50/150ohms)	DATE	Apr.26, 2004
FMD Part Number	FAR-F5EB-881M50-B28W	Version 1.1c	

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

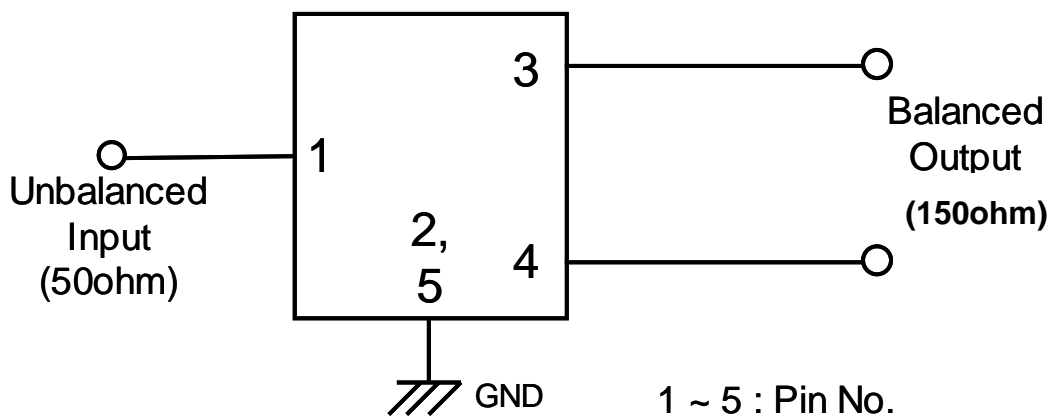


Table 1.Target specifications

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	GSM850 Rx (50/150ohms)	DATE	Apr.26, 2004
FMD Part Number	FAR-F5EB-881M50-B28W	Version 1.1c	

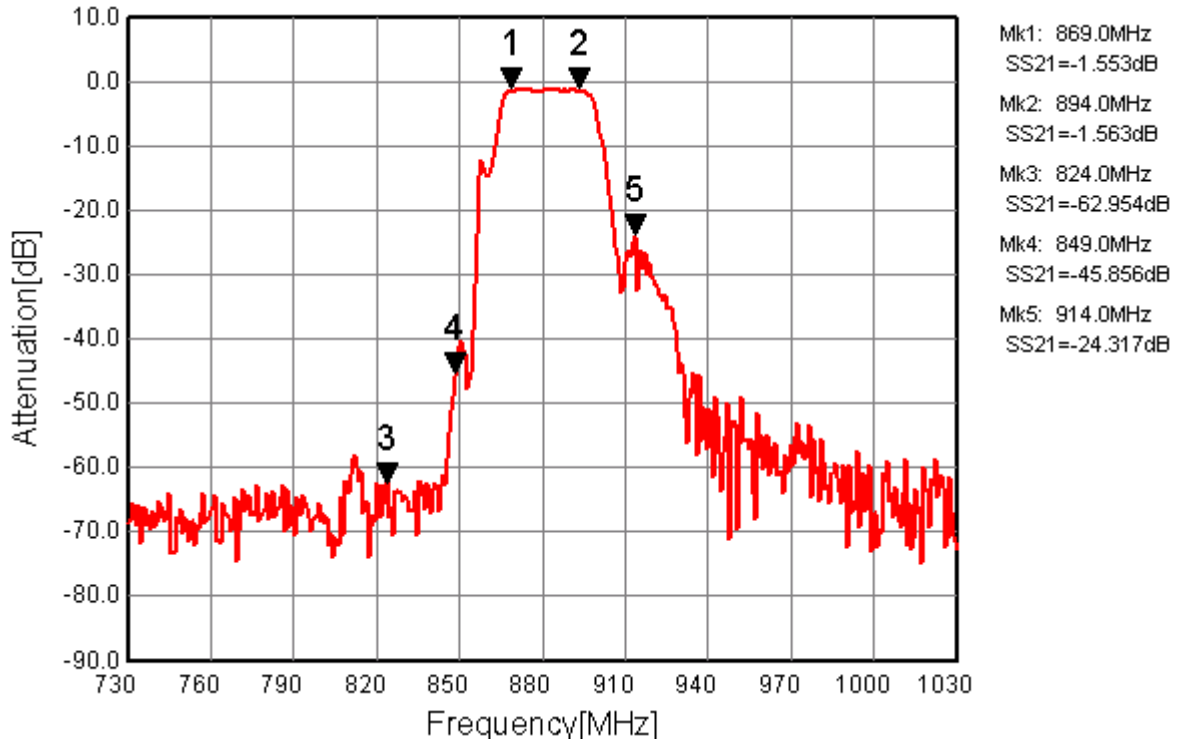


Fig.1 Pass-band Characteristics

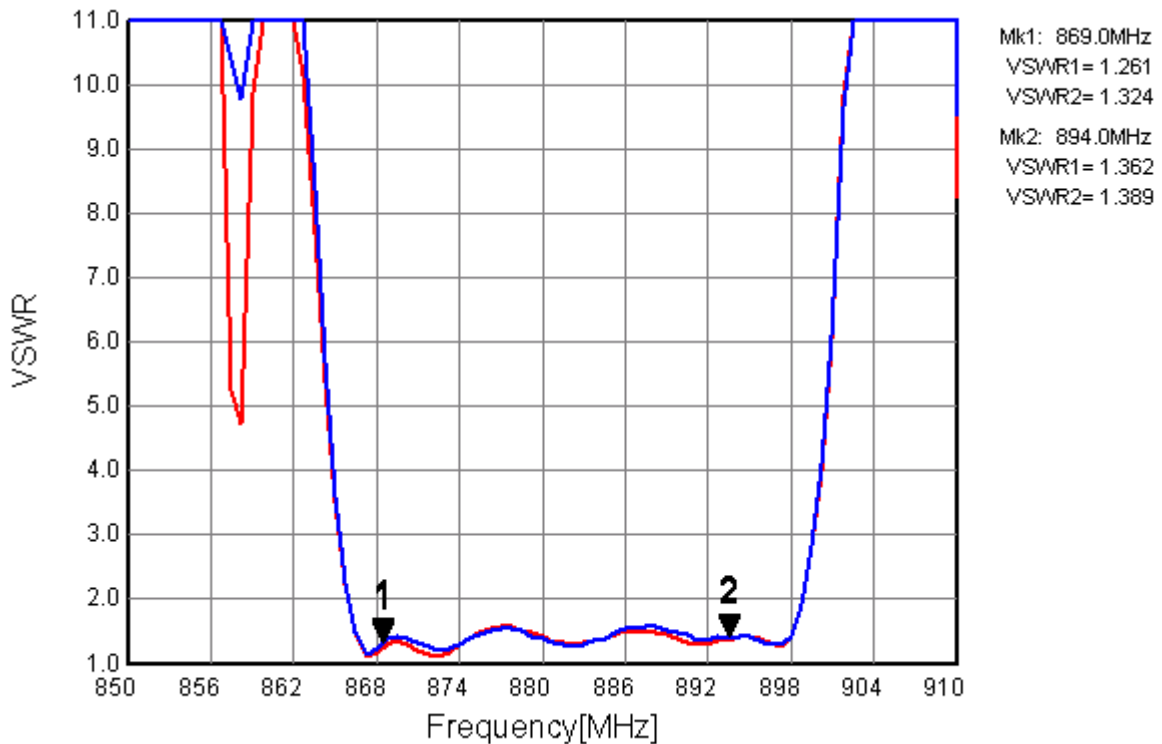


Fig.2 VSWR

— Unbal
— Bal

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	GSM850 Rx (50/150ohms)	DATE	Apr.26, 2004
FMD Part Number	FAR-F5EB-881M50-B28W	Version 1.1c	

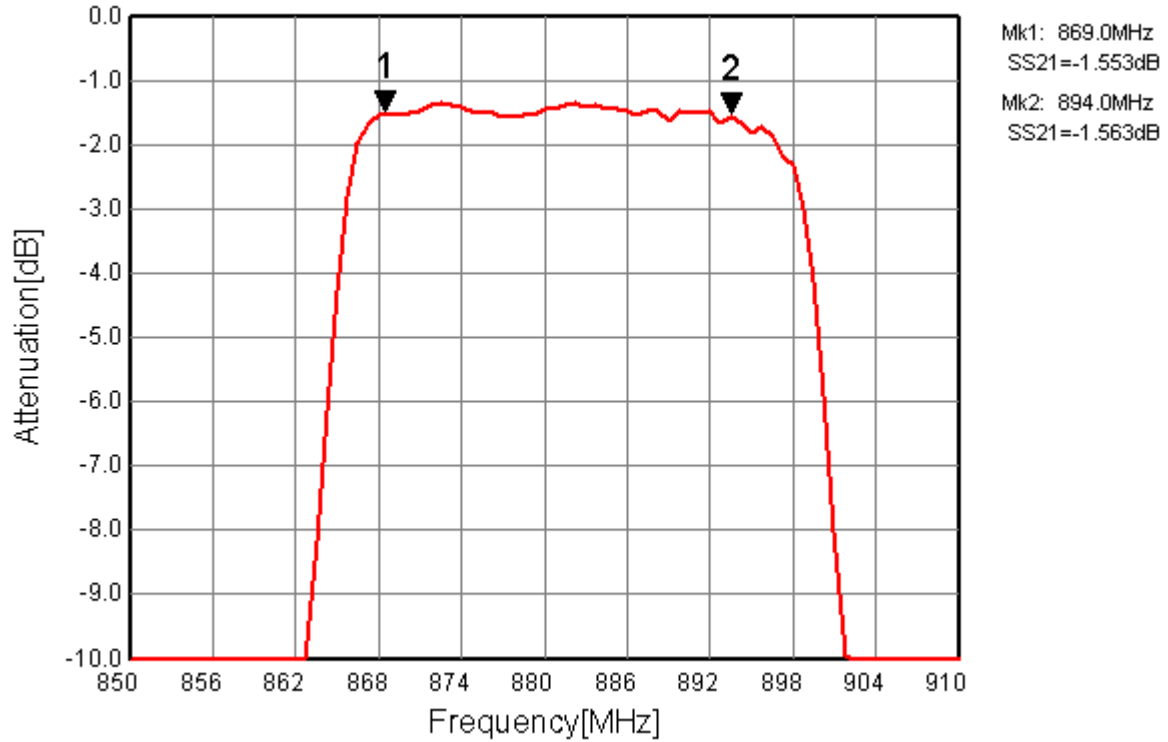


Fig.3 In-band Characteristics

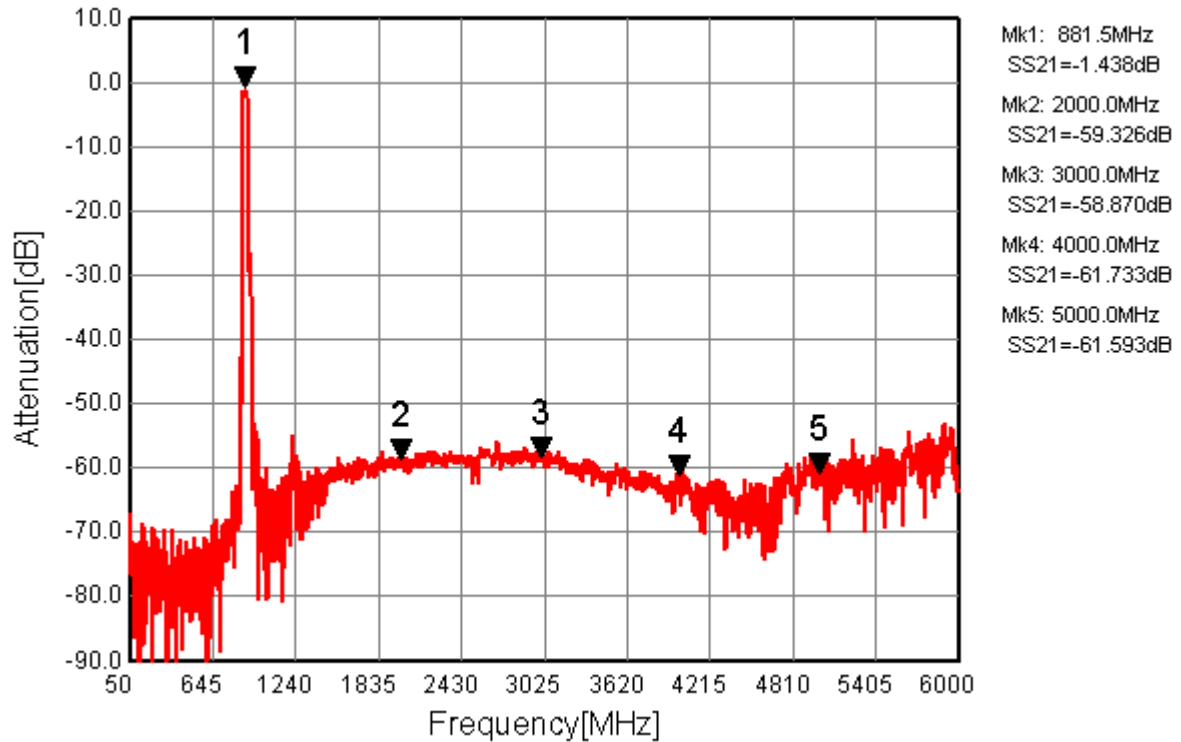
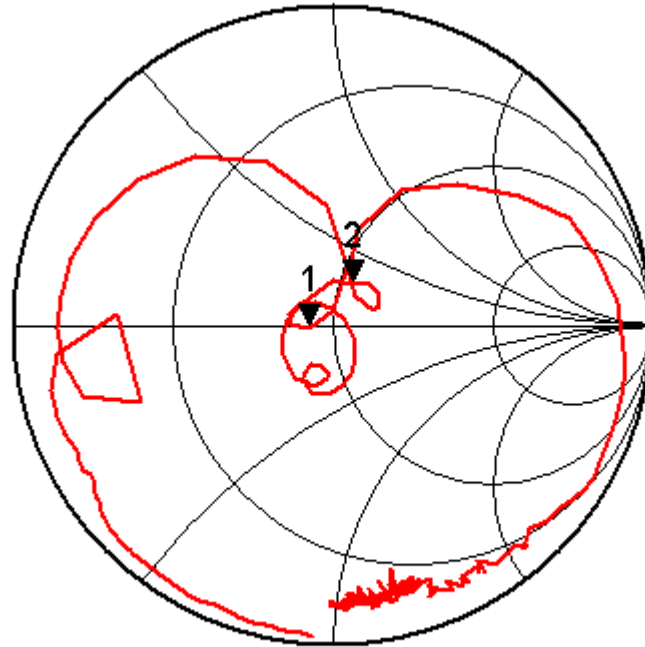


Fig.4 Wide-band Characteristics

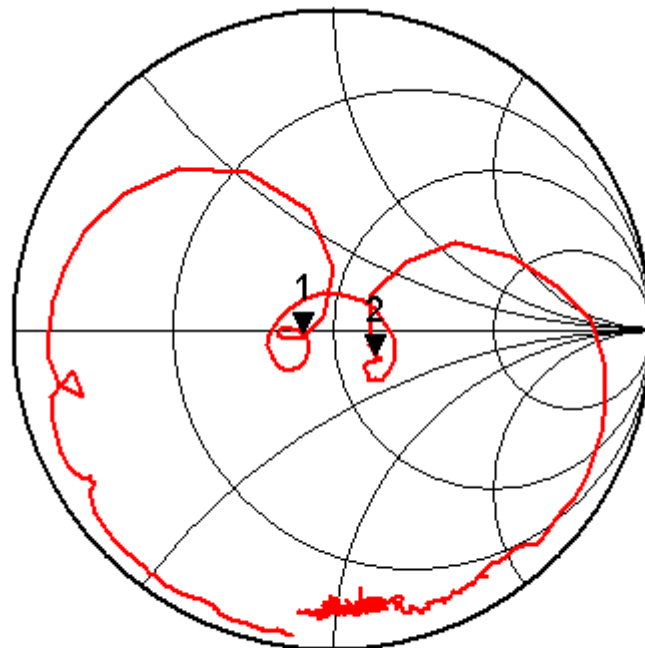
Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	GSM850 Rx (50/150ohms)	DATE	Apr.26, 2004
FMD Part Number	FAR-F5EB-881M50-B28W	Version 1.1c	



Mk1: 869.0

Mk2: 894.0

Fig.5 Input Impedance (Unbalance)



Mk1: 869.0

Mk2: 894.0

Fig.6 Output Impedance (Balance)

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	GSM850 Rx (50/150ohms)	DATE	Apr.26, 2004
FMD Part Number	FAR-F5EB-881M50-B28W	Version 1.1c	

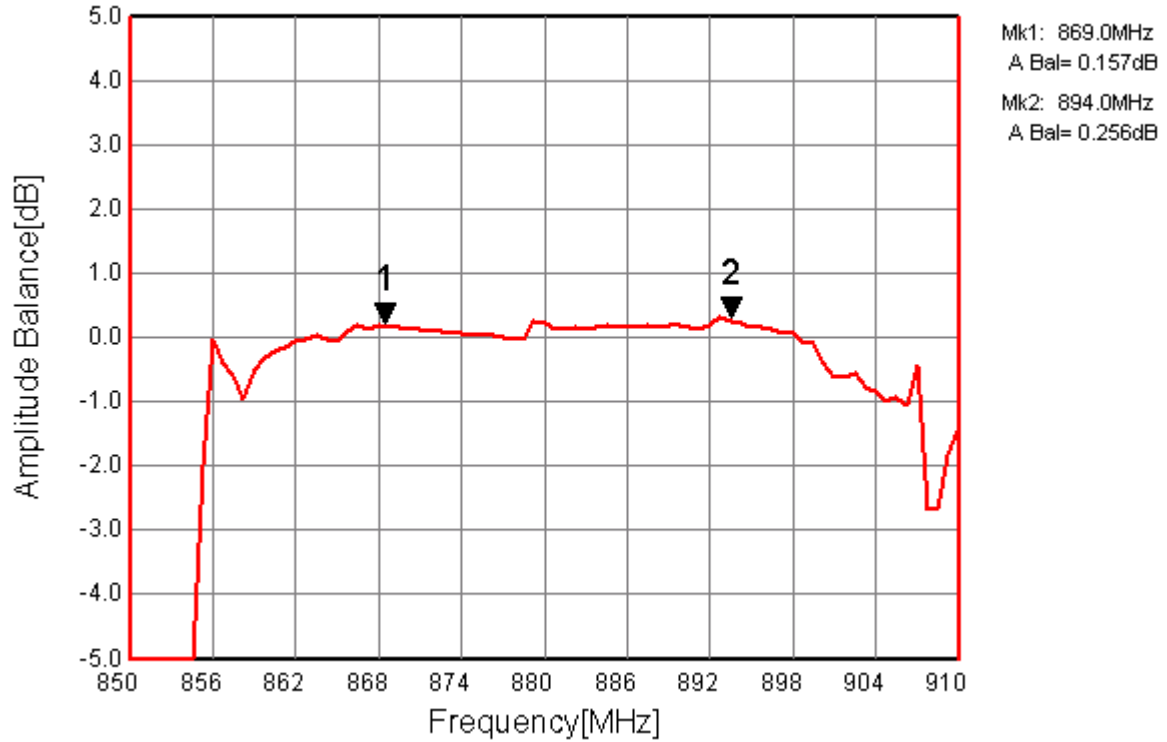


Fig.7 Amplitude Balance

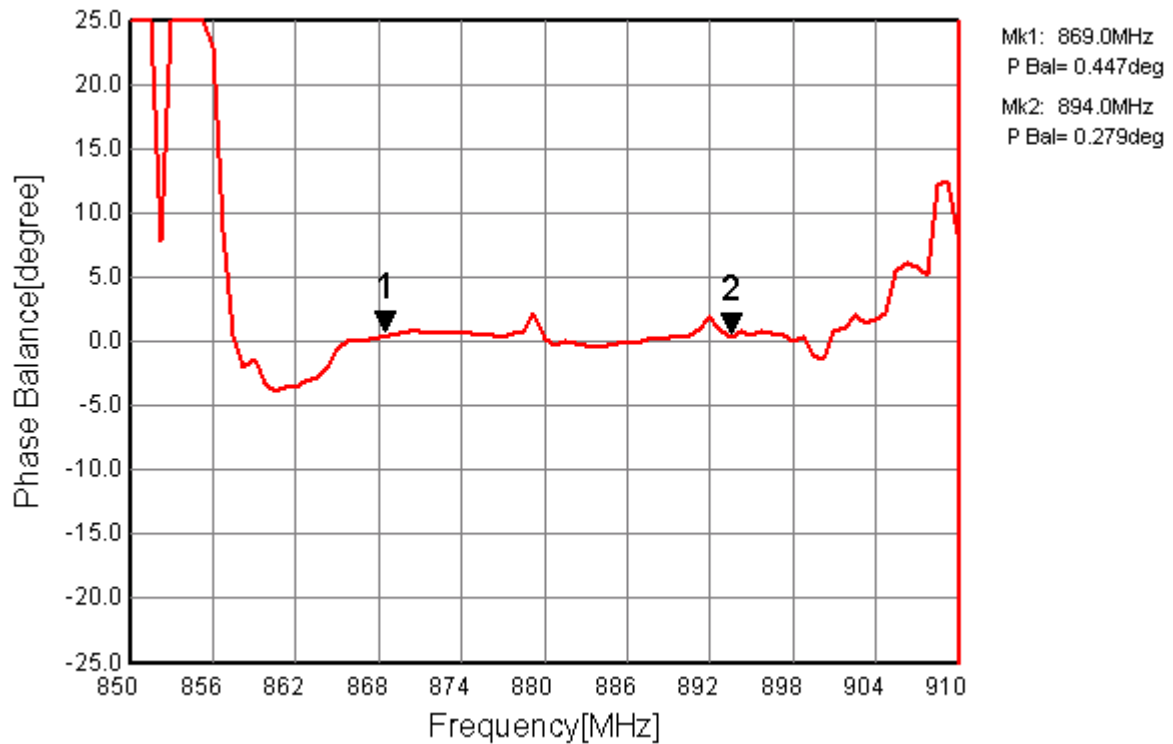


Fig.8 Phase Balance