

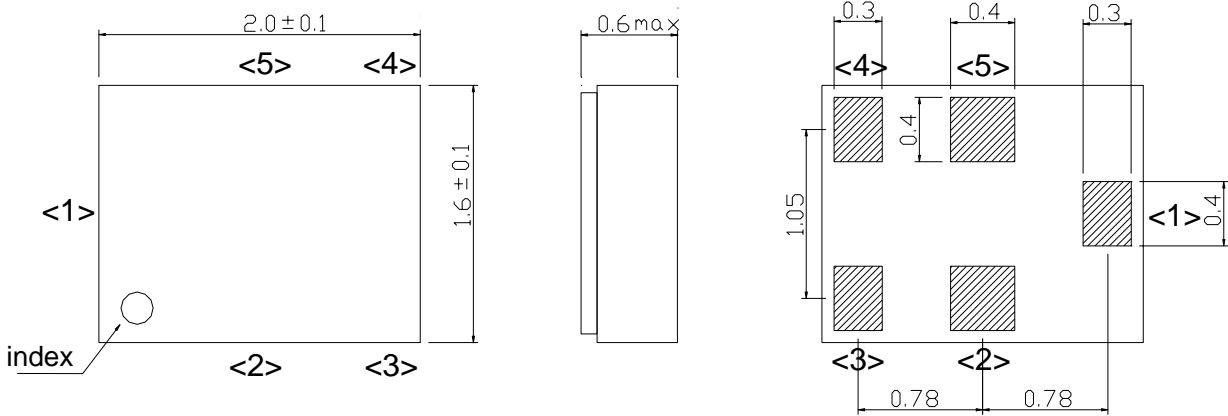
Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	DCS1800-Rx (50/50ohm)	DATE	Jan. 10, 2004
FMD Part Number	FAR-F6EB-1G8425-B2DA	Version 2.0h	

Table 1. Electrical specifications

Passband : 1805 ~ 1880 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	1805 ~ 1880	-	2.6	3.2	dB	
Ripple	1805 ~ 1880	-	0.9	1.5	dB	
Absolute attenuation	DC ~ 1300	30	38	-	dB	
	1300 ~ 1705	27	36	-	dB	
	1705 ~ 1750	23	34	-	dB	
	1750 ~ 1765	16	23	-	dB	
	1765 ~ 1785	10	16	-	dB	
	1920 ~ 1980	18	22	-	dB	
	1980 ~ 2500	23	27	-	dB	
	2500 ~ 3000	25	34	-	dB	
	3000 ~ 4000	23	30	-	dB	
4000 ~ 6000	10	20	-	dB		
VSWR(Input)	1805 ~ 1880	-	2.1	2.5	-	
VSWR(Output)	1805 ~ 1880	-	2.1	2.5	-	
Amplitude balance S ₂₁ /S ₃₁	1805 ~ 1880	-2.0	-1.4/ + 1.1	+1.6	dB	@25 °C
		-2.4	-	+1.6		
Phase balance (Φ S ₂₁ - Φ S ₃₁)+180	1805 ~ 1880	-12	-6/8	15	deg.	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	50			ohm	
Operating temperature		-30 ~ +85			°C	
Device size		2.0typ. x 1.6typ. x 0.6max.			mm	

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Dimensions



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

Unit :mm

Fig.1

Pin Configuration

Table 1

Pin No.	Pin name	Description
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced pin
4	OUT	Balanced pin
5	GND	Ground

Evaluation Circuit

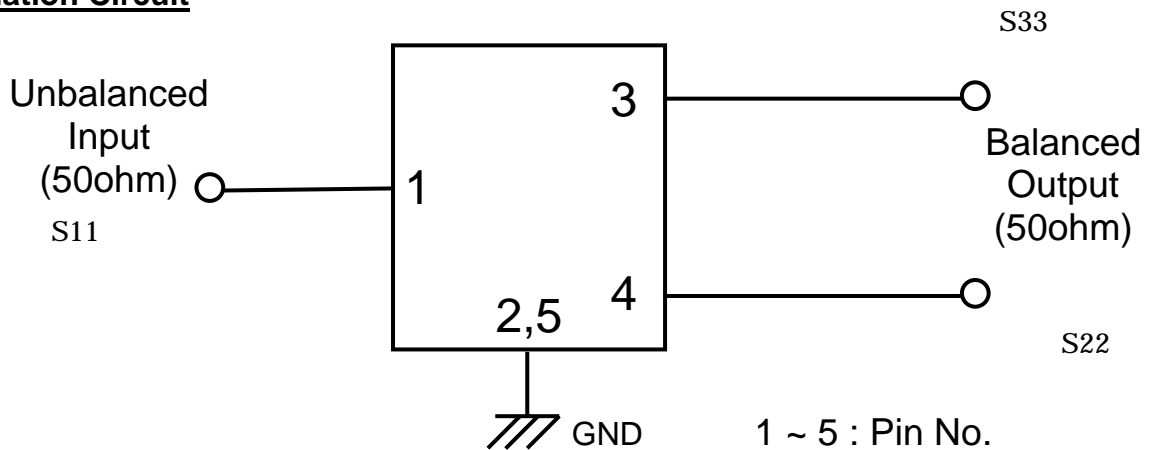


Fig.2 Evaluation circuit

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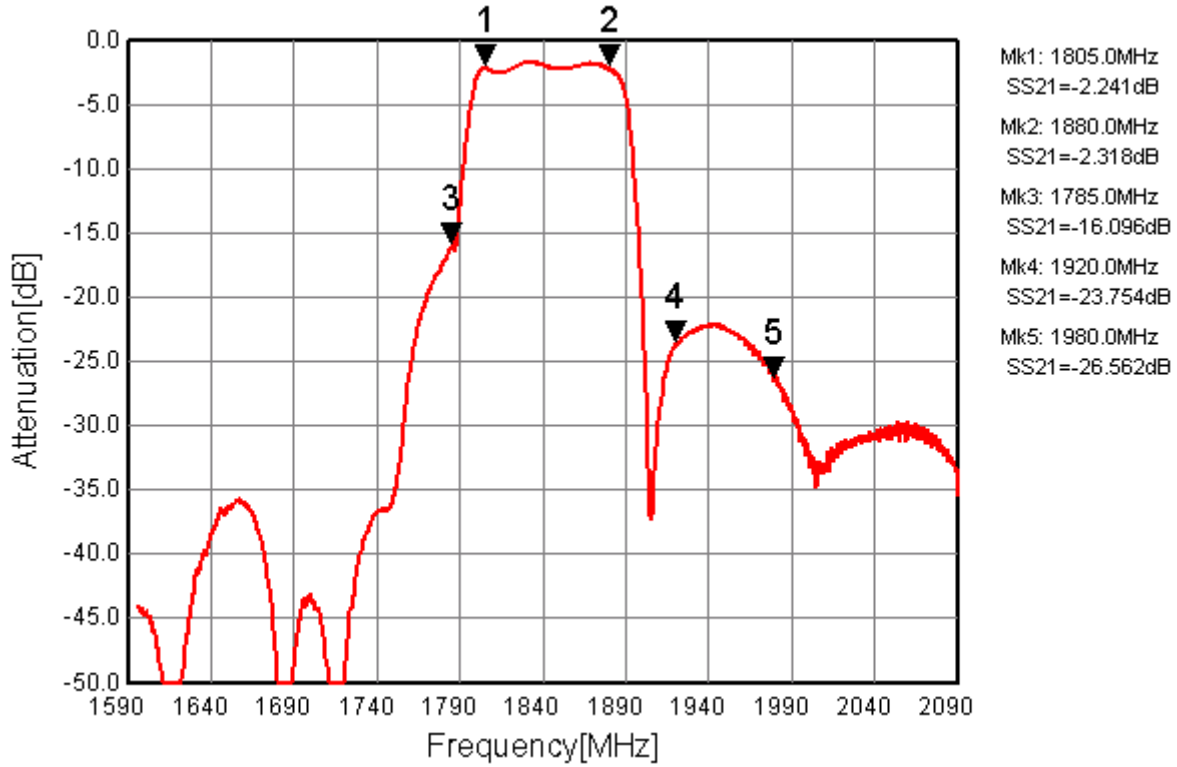


Fig.1 Pass-band Characteristics

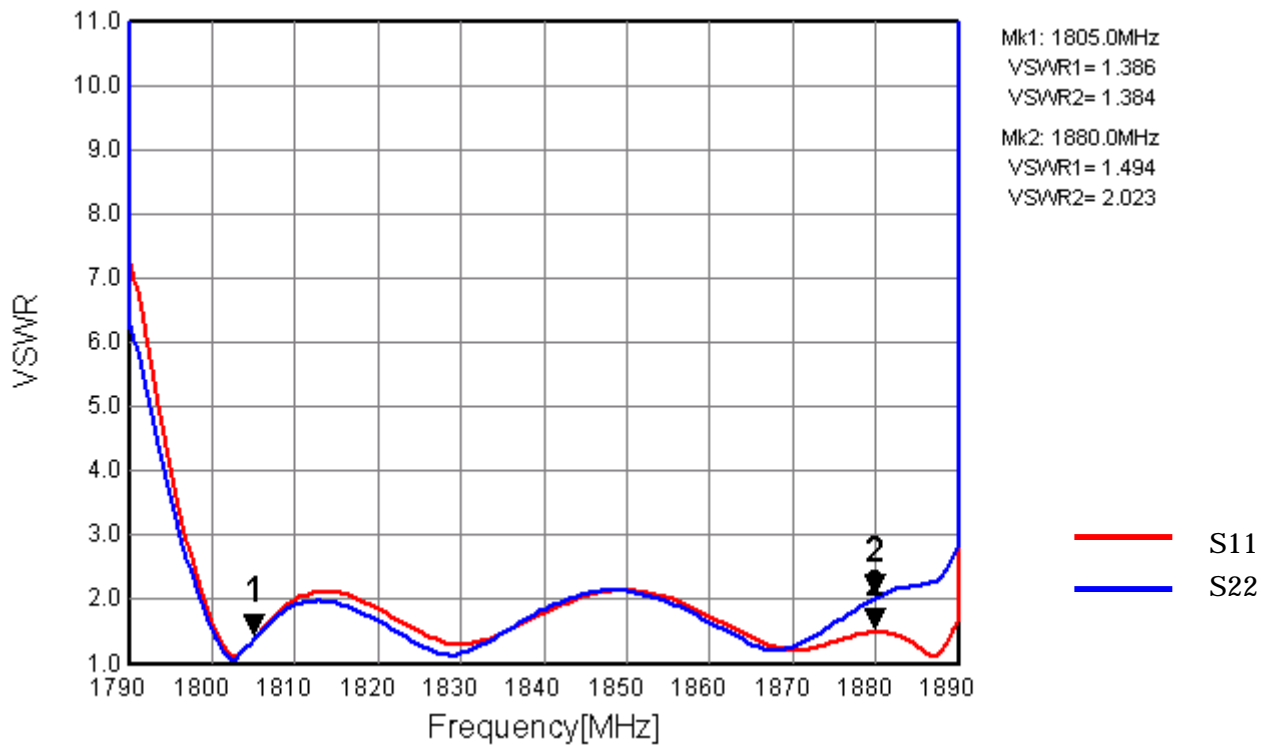


Fig.2 VSWR

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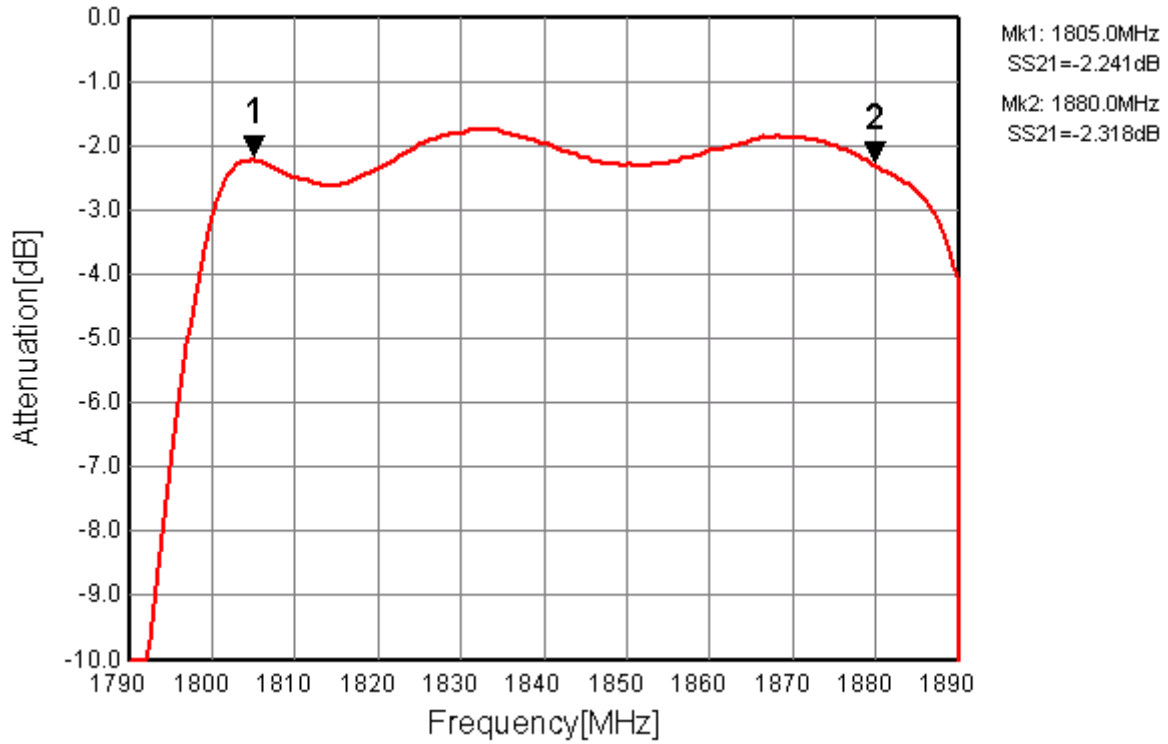


Fig.3 In-band Characteristics

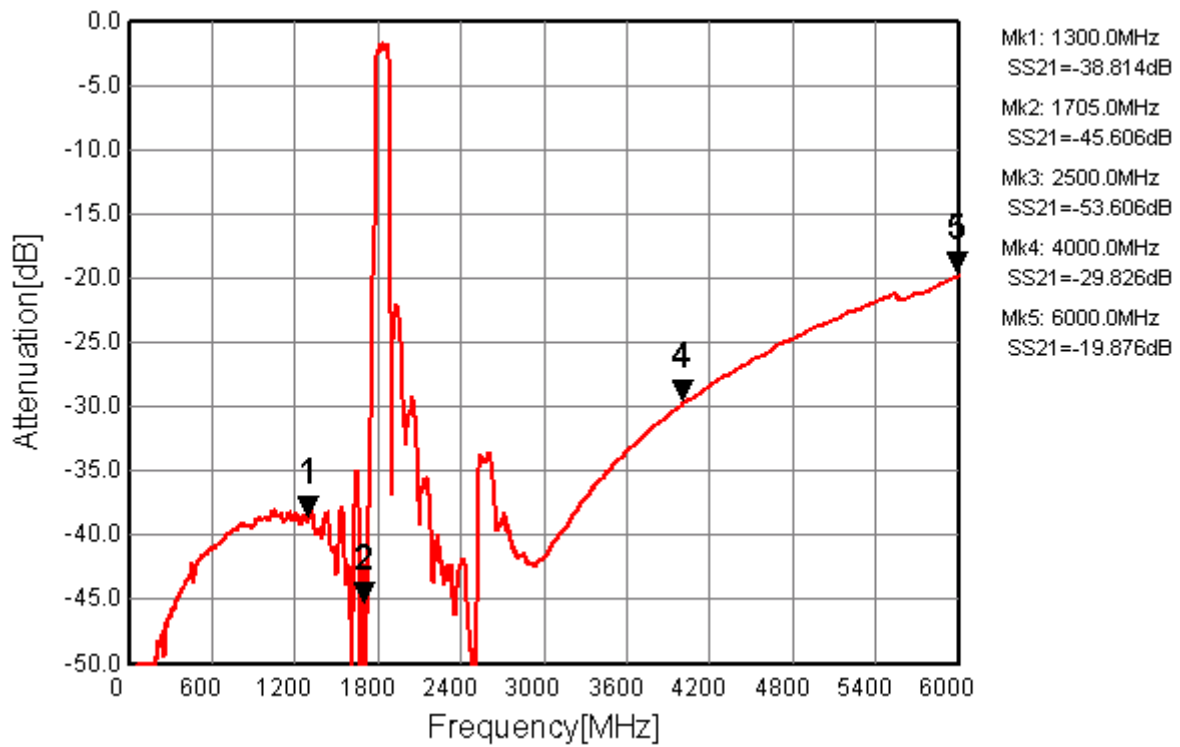
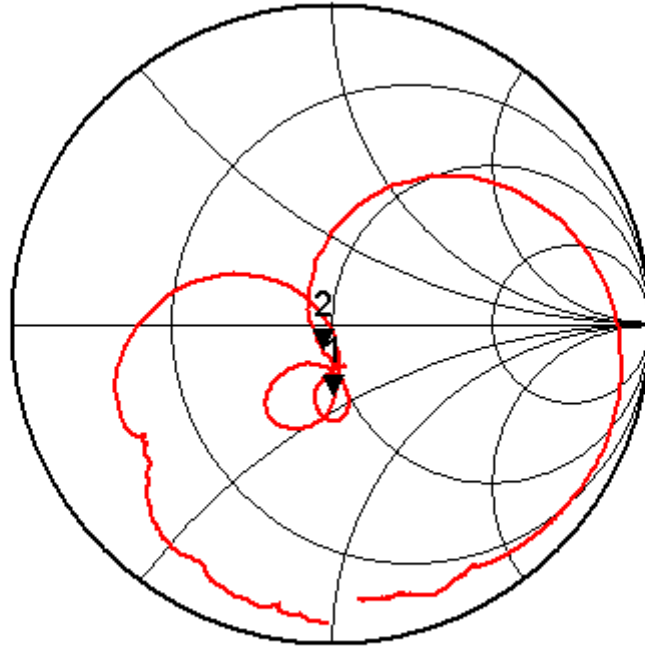


Fig.4 Wide-band Characteristics

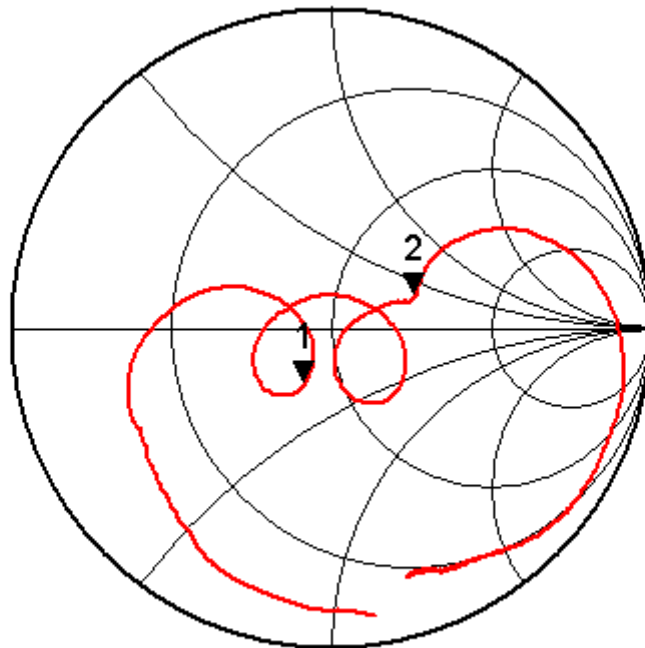
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Mk1: 1805.0

Mk2: 1880.0

Fig.5 S11



Mk1: 1805.0

Mk2: 1880.0

Fig.6 S22

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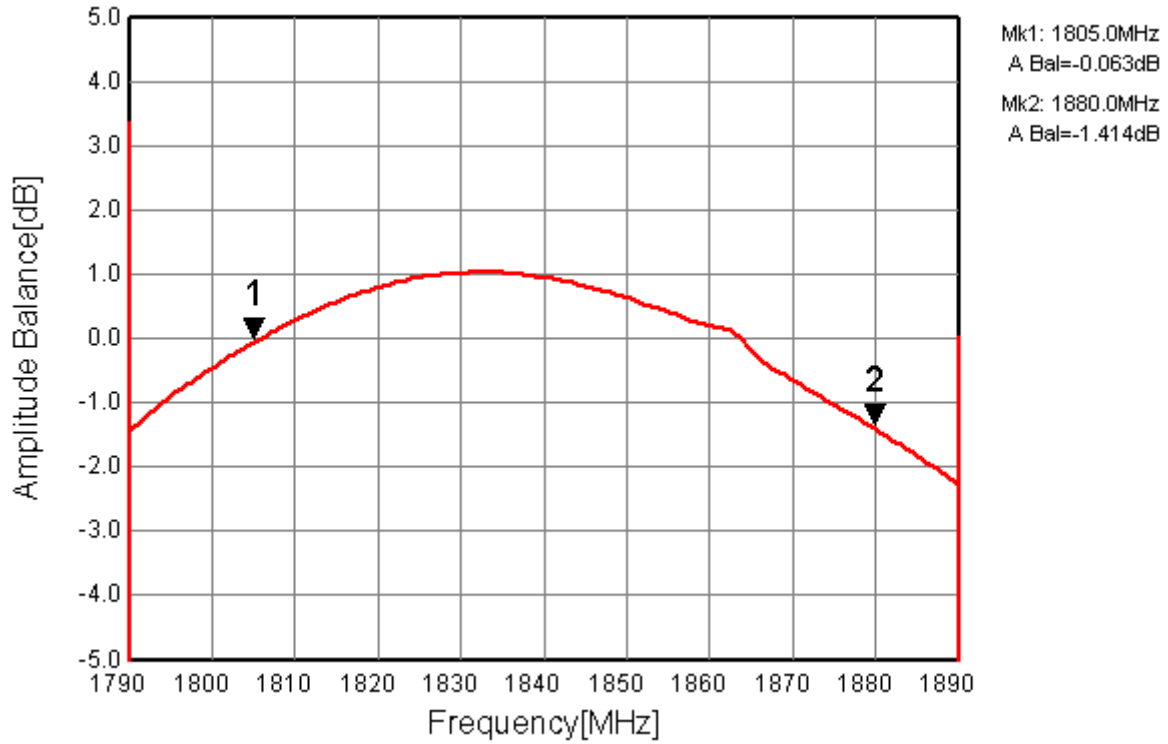


Fig.7 Amplitude Balance

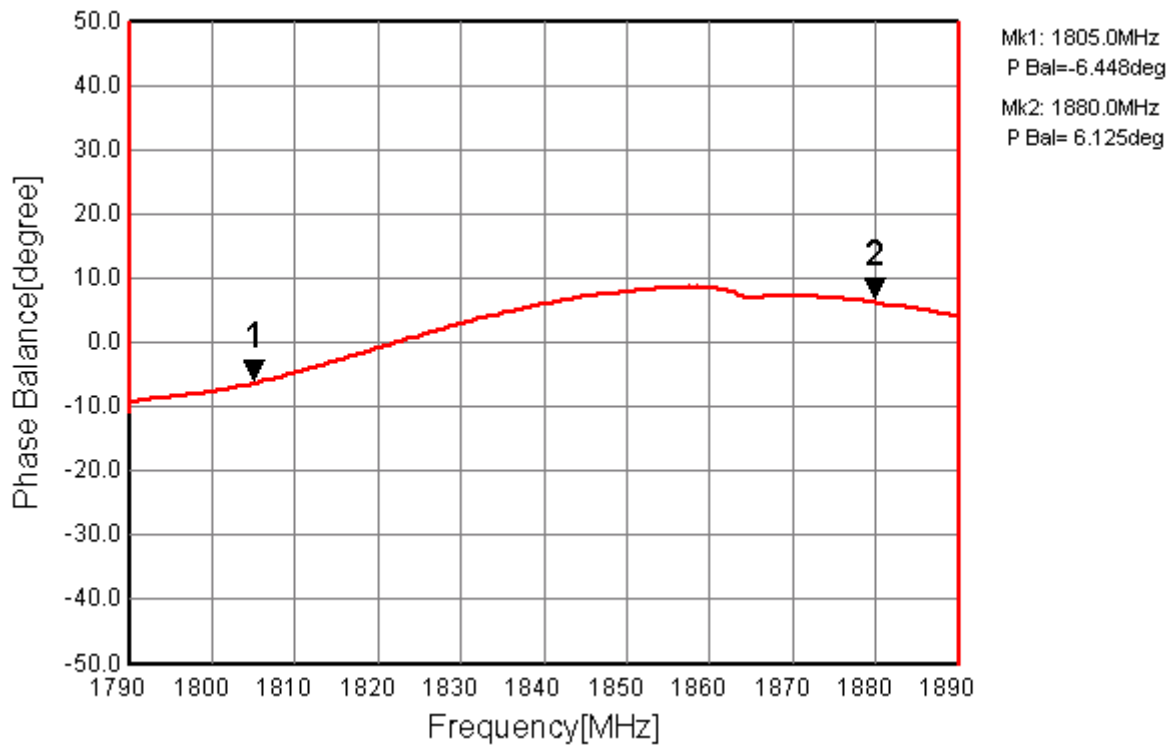


Fig.8 Phase Balance