

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	DCS-Rx(50/150ohm)	DATE	Sept. 25, 2003
FMD Part Number	FAR-F6EB-1G8425-B2BC	Version 5.4c	
Customer No.		Reference No.	

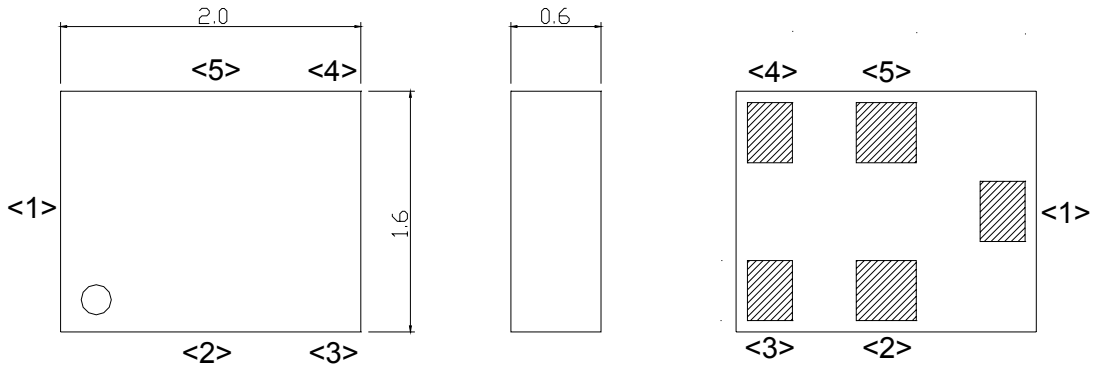
Table 1 Electrical Specification

Passband : 1805 ~ 1880 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1805 ~ 1880	-	2.2	3.3	dB	
Ripple	1805 ~ 1880	-	1.0	2.0	dB	
Absolute attenuation	DC ~ 1300	35	43	-	dB	
	1300 ~ 1705	28	32	-	dB	
	1705 ~ 1785	14	19	-	dB	+25 °C
		10	-	-	dB	
	1920 ~ 1980	14	22	-	dB	
	1980 ~ 2500	25	29	-	dB	
	2500 ~ 3840	24	32	-	dB	
3840 ~ 6000	25	42	-	dB		
VSWR	1805 ~ 1880	-	2.0	2.7	-	
VSWR(Output)	1805 ~ 1880	-	2.0	2.7	-	
Amplitude balance (S ₂₁ /S ₃₁)	1805~1880	-2.0	-1.5/ +1.0	+1.5	dB	
Phase balance (∠S ₂₁ -∠S ₃₁)+180)	1805~1880	-15	-10/ +5	+10	deg.	
Input impedance	Unbalance	50			ohm	
Output impedance	Balance	150//12nH			ohm	
Input Power	1805~1880 MHz	-	-	+12	dBm	
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

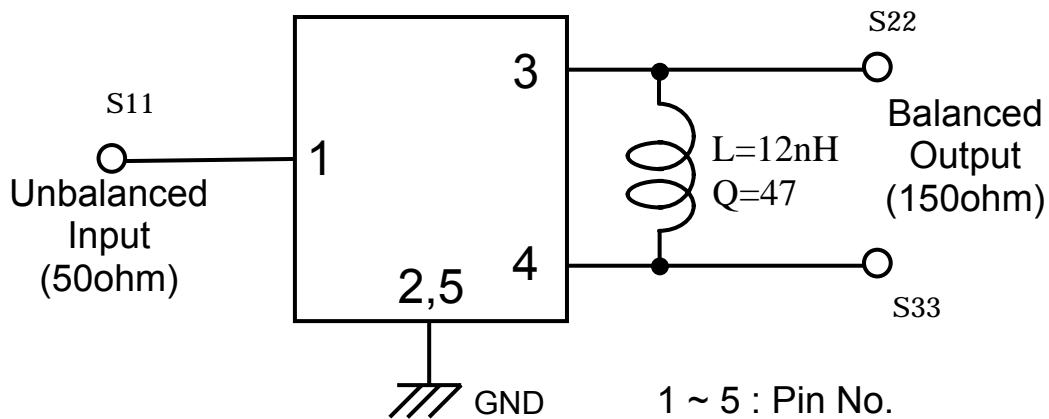


Unit : mm

Pin Configuration

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

Evaluation Circuit



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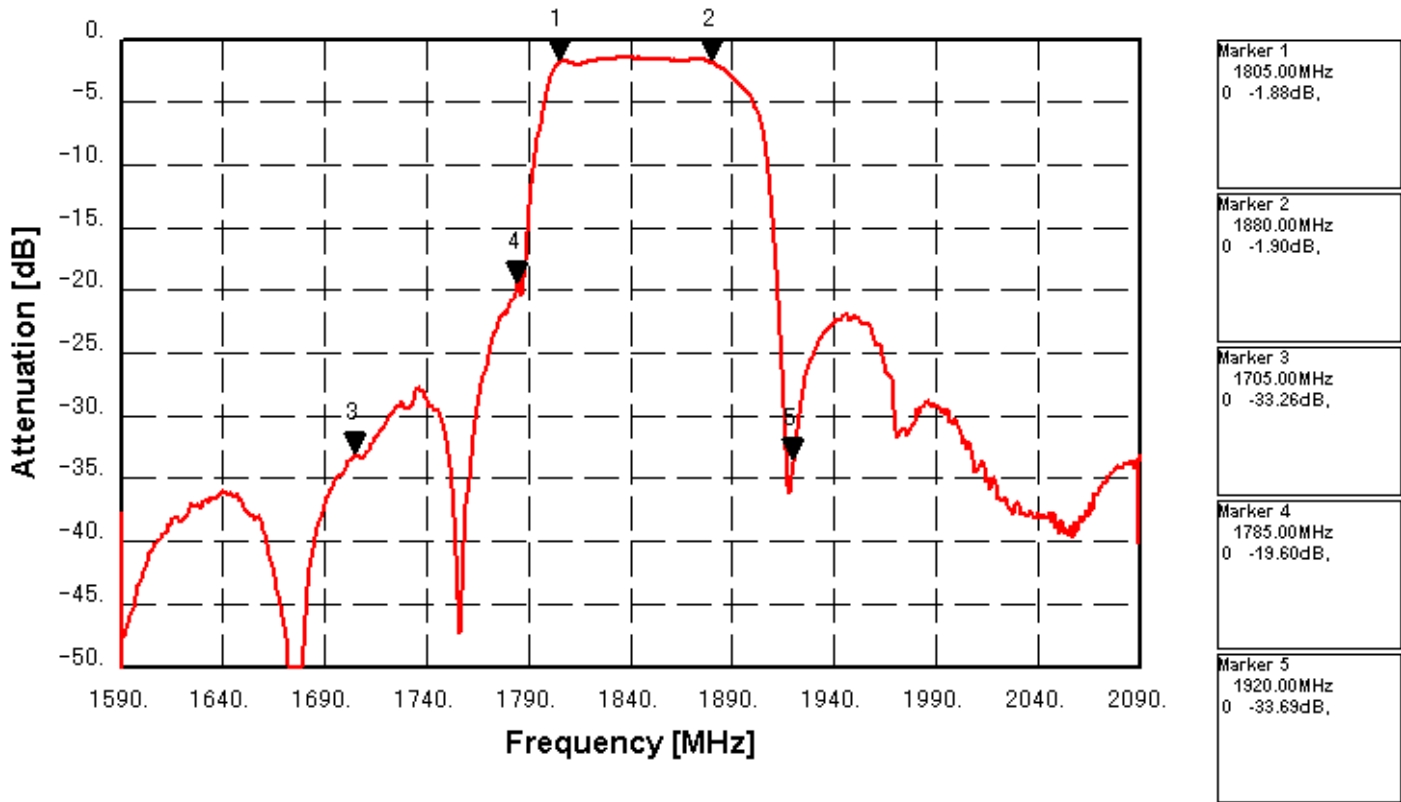


Fig.1 Pass-band Characteristics

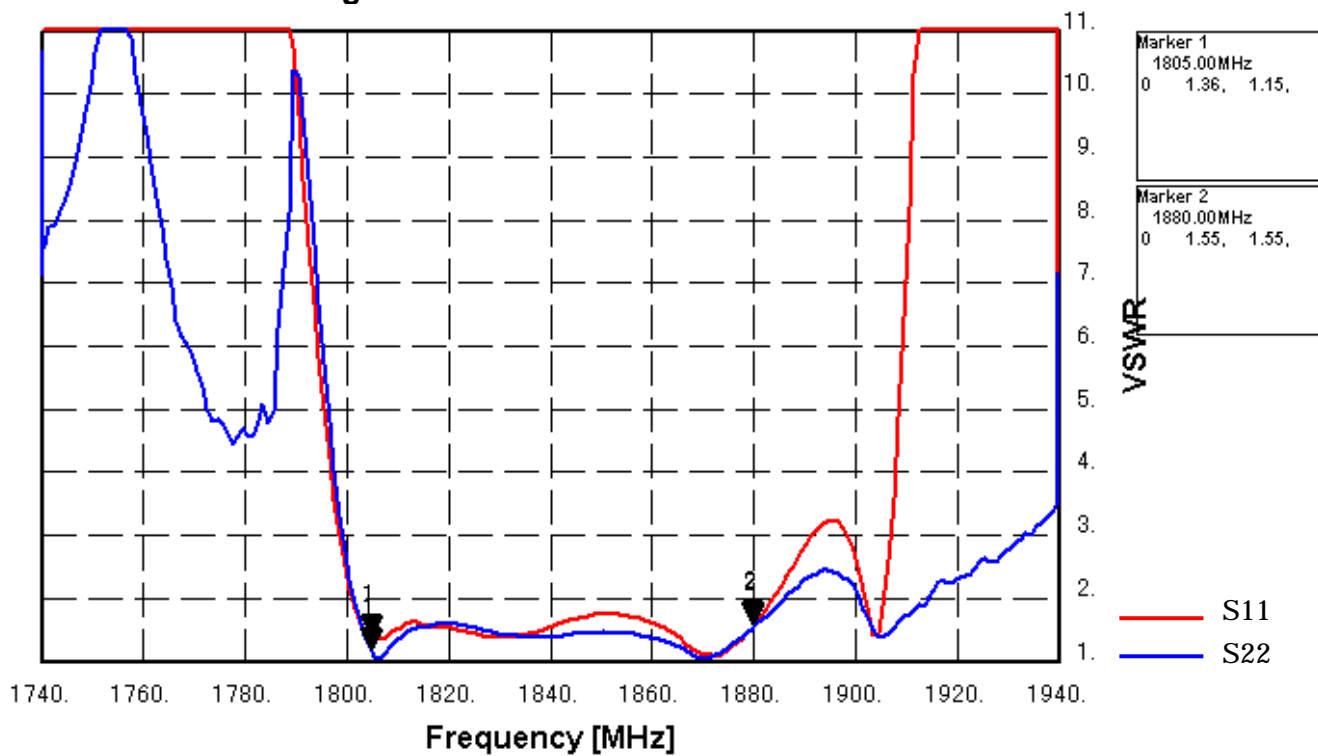


Fig.2 VSWR

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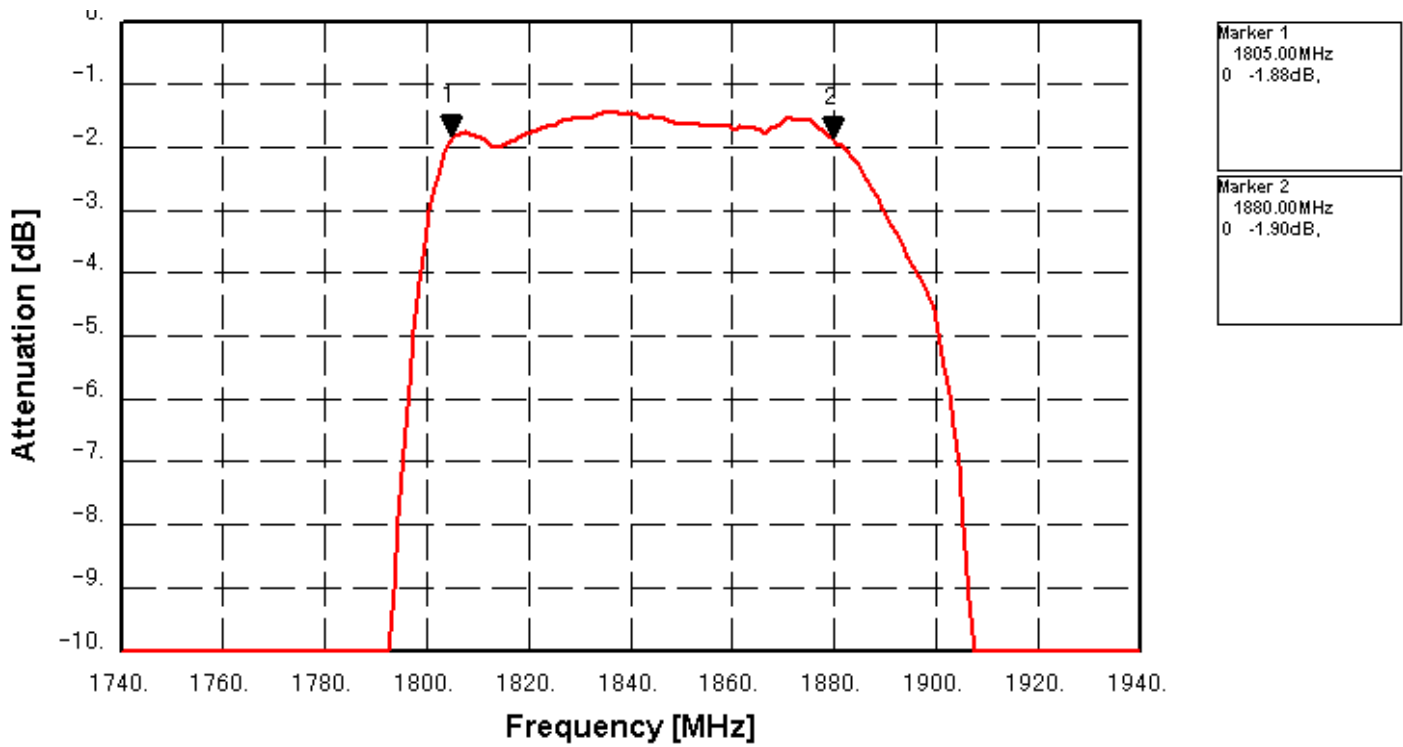


Fig.3 In-band Characteristics

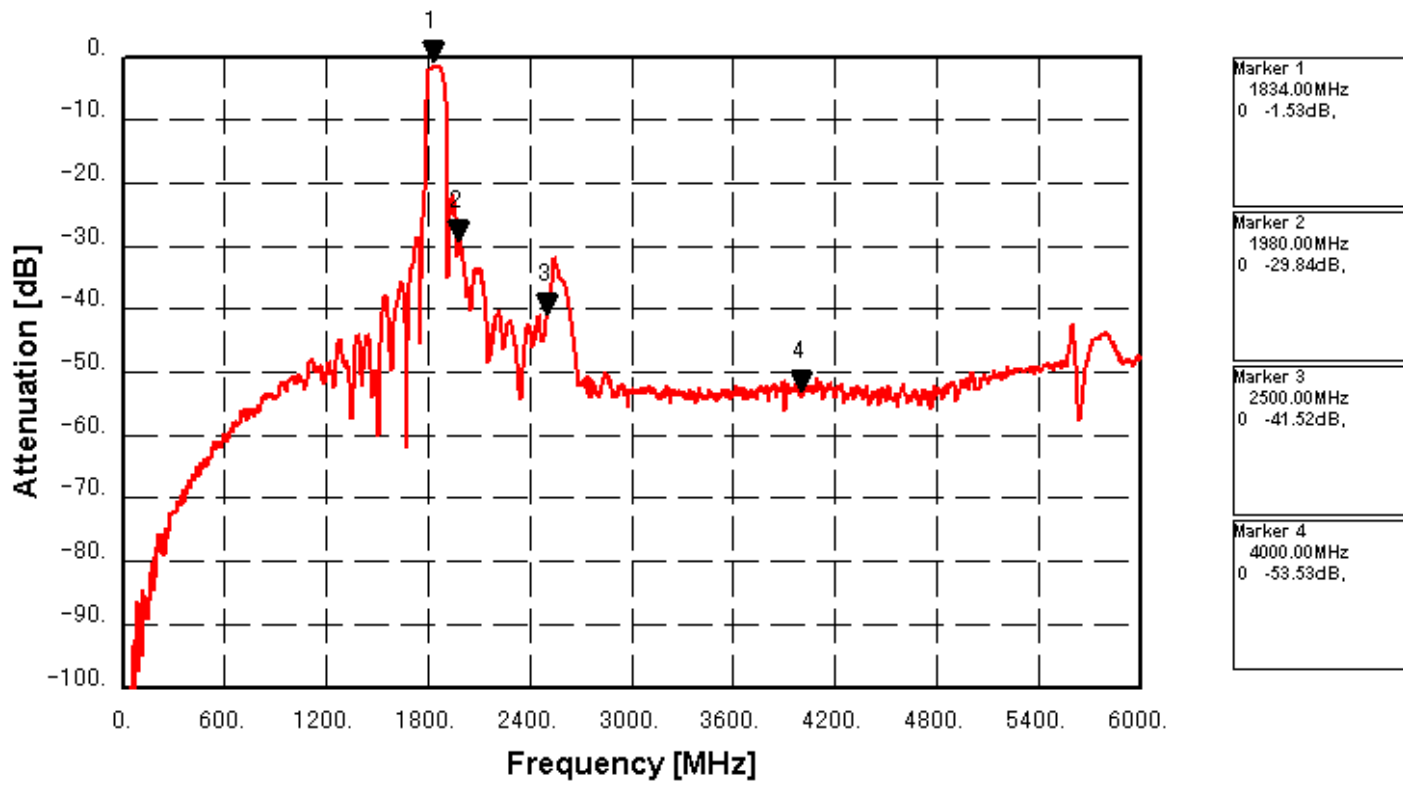
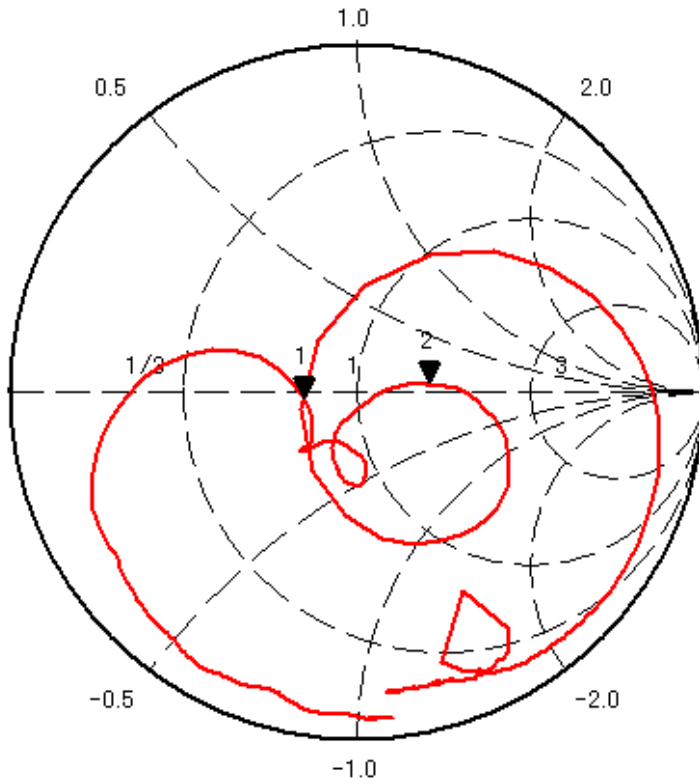


Fig.4 Wide-band Characteristics

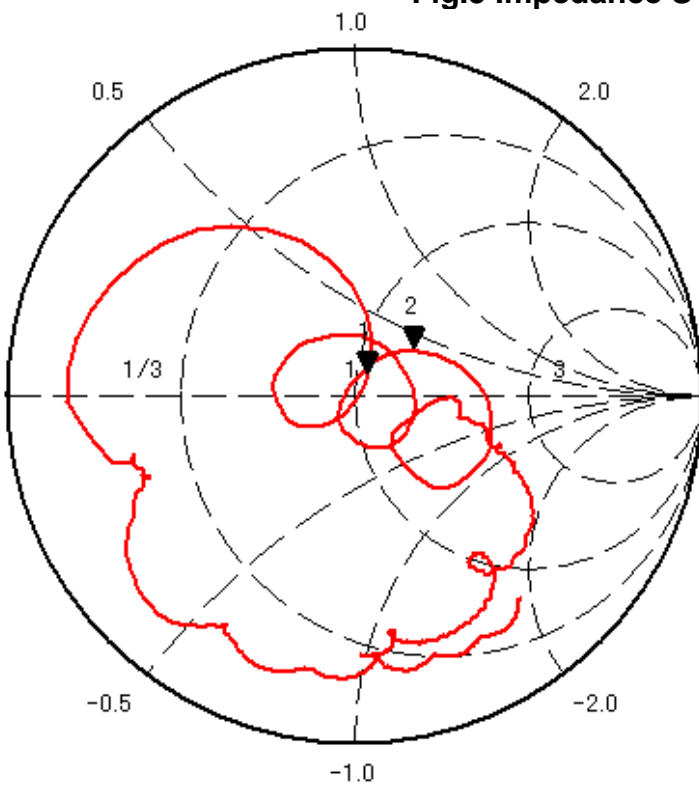
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Marker 1
1805.00MHz

Marker 2
1880.00MHz

Fig.5 Impedance S11



Marker 1
1805.00MHz

Marker 2
1880.00MHz

Fig.6 Impedance S22

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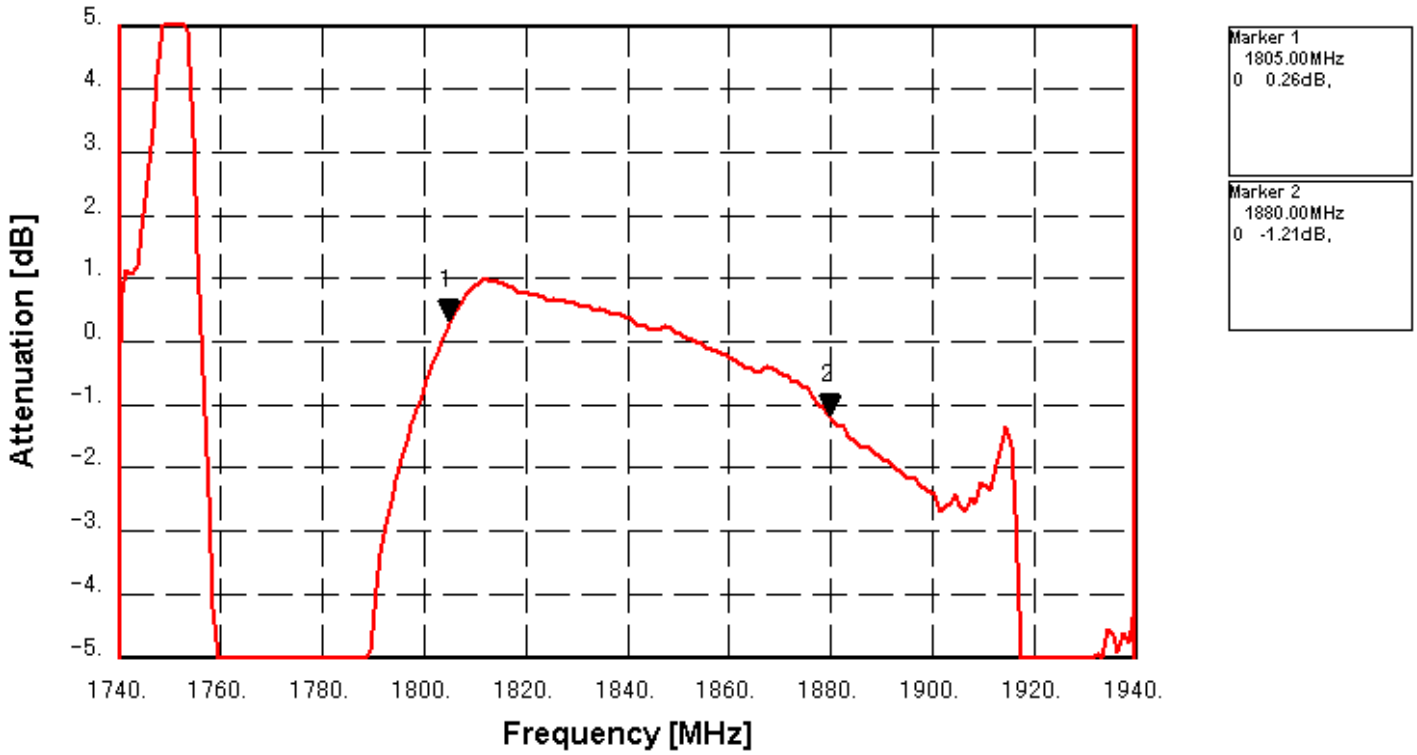


Fig.7 Amplitude Balance

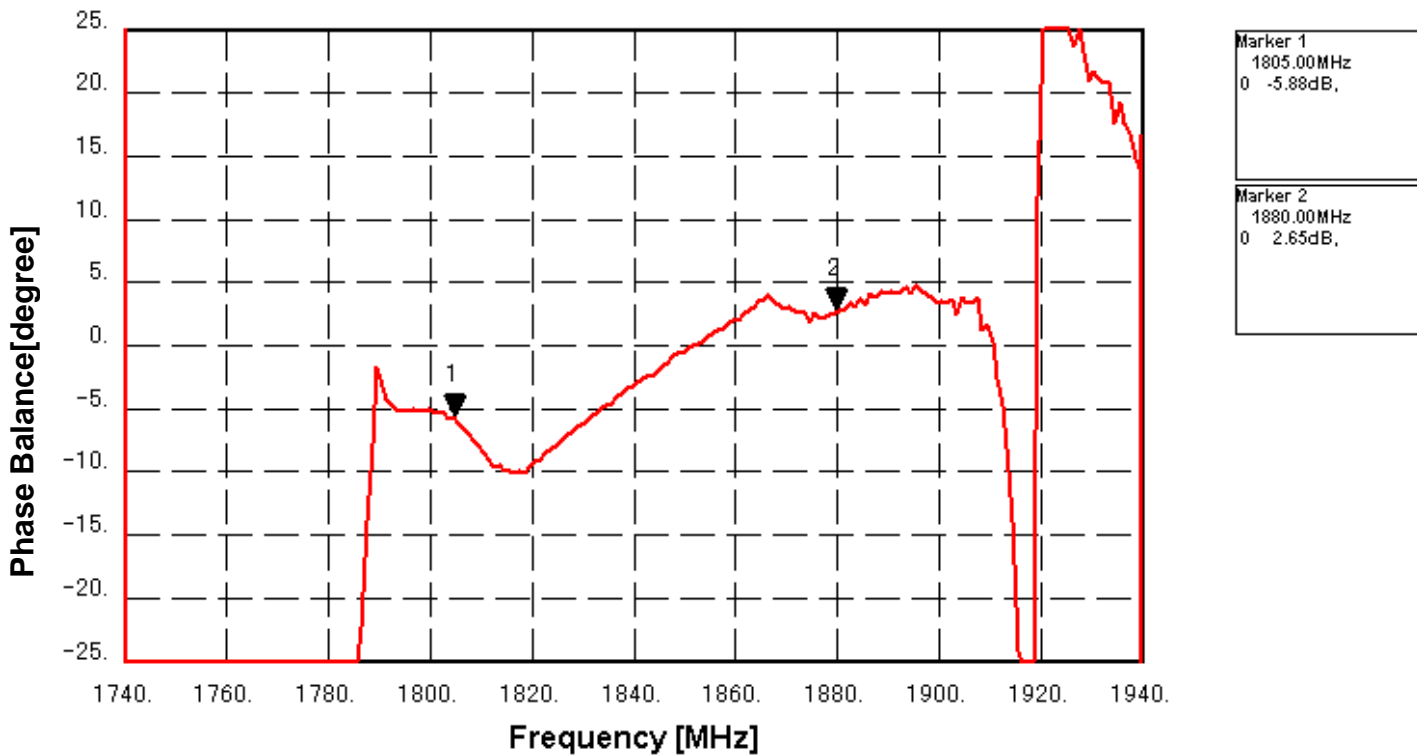


Fig.8 Phase Balance