

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
System	PCS-Rx (50/100)	DATE	Sep.10, 2003
FMD Part Number	FAR-F6EB-1G9600-B2BK	Version 2.0d	

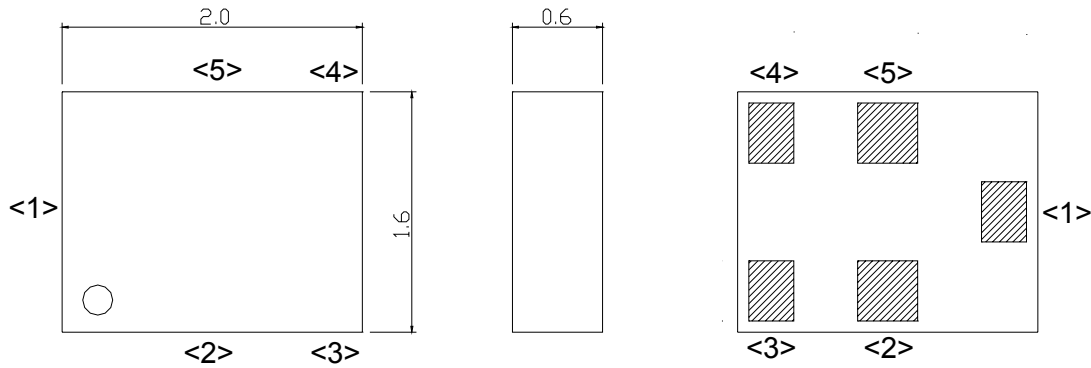
Table 1. Electrical specifications

Passband:1930 ~ 1990 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930~1990 MHz	-	2.9	3.4	dB	
Ripple	1930~1990 MHz	-	1.4	2.0	dB	
Absolute attenuation	DC~1830 MHz	25	35	-	dB	
	1830~1900 MHz	15	21	-	dB	
	1900~1910 MHz	20	23	-	dB	+25+/-2°C
		15	-	-		
	2020~2070 MHz	20	25	-	dB	
	2070~2500 MHz	25	31	-	dB	
2500~6000 MHz	30	36	-	dB		
VSWR (Input)	1930~1990 MHz	-	2.3	2.9	-	
VSWR (Output)	1930~1990 MHz	-	2.2	2.9	-	
Amplitude Balance S21 / S31 +180	1930~1990 MHz	-1.4	-0.6/ +0.9	+1.4	dB	
Phase Balance (Φ S21- Φ S31)+180	1930~1990 MHz	-13	-4/+7	+13	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	100//12nH			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

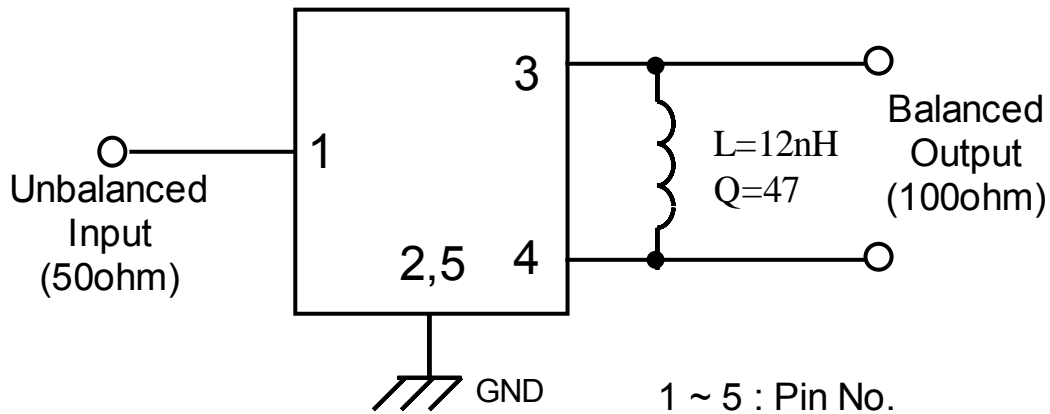


Unit: mm

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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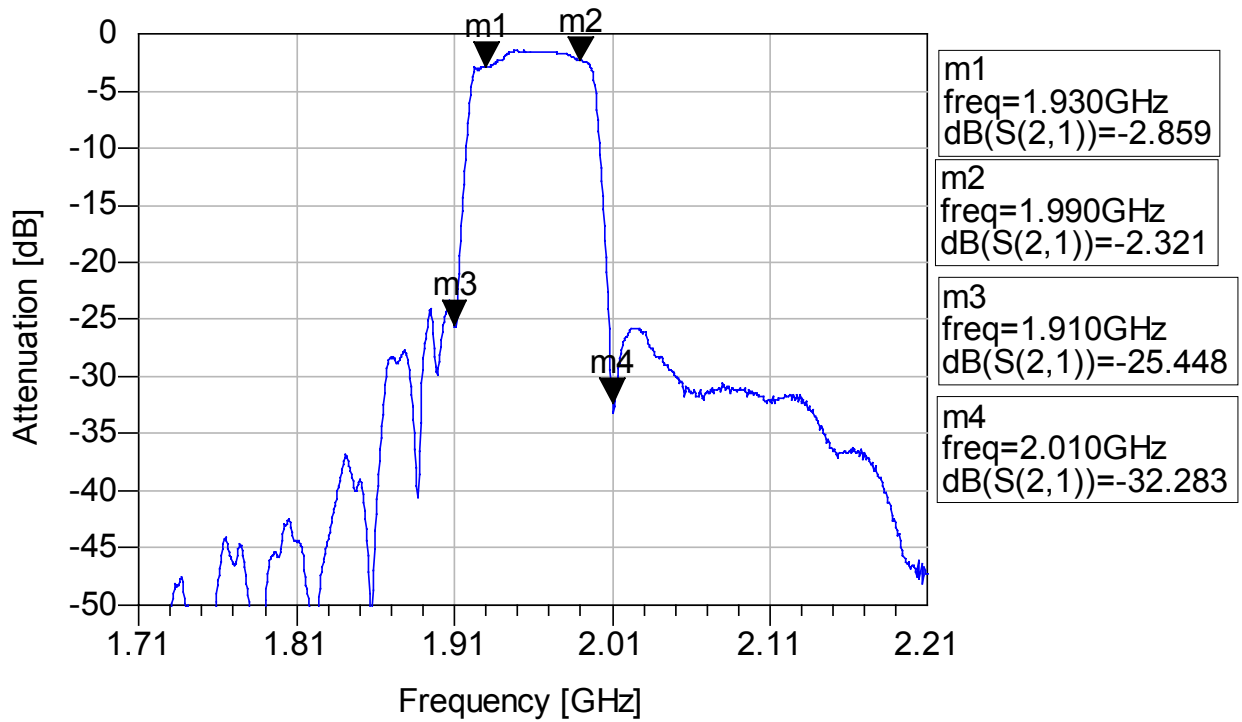


Fig.1 Pass-band Characteristics

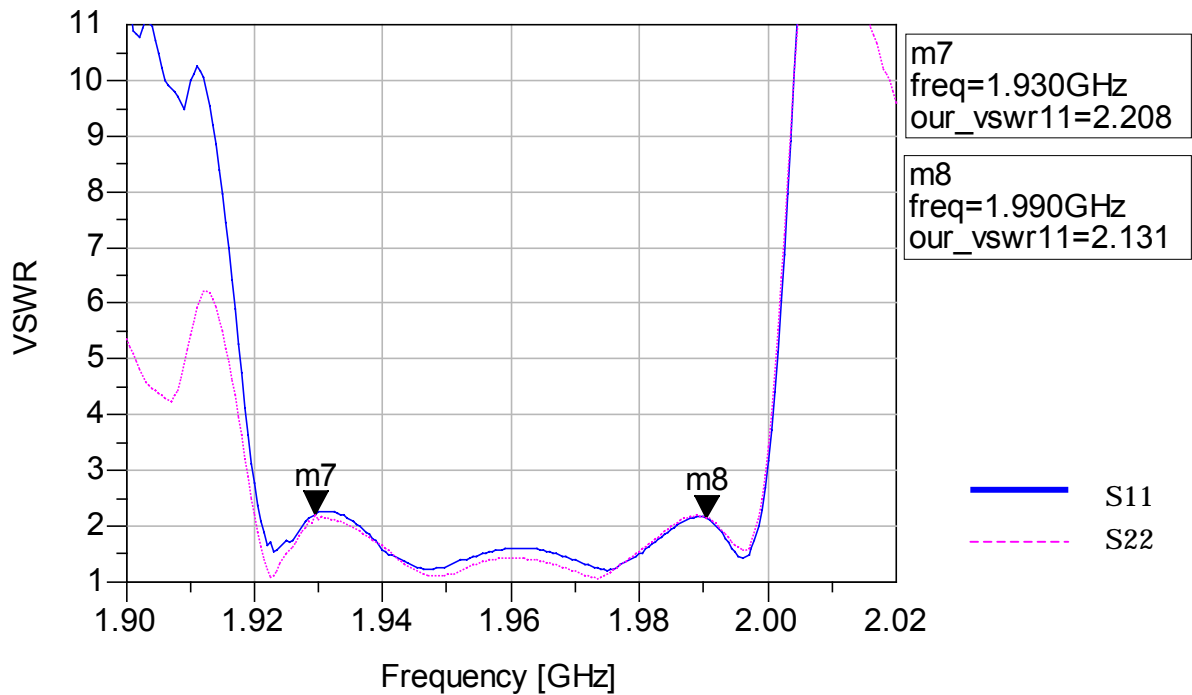


Fig.2 VSWR

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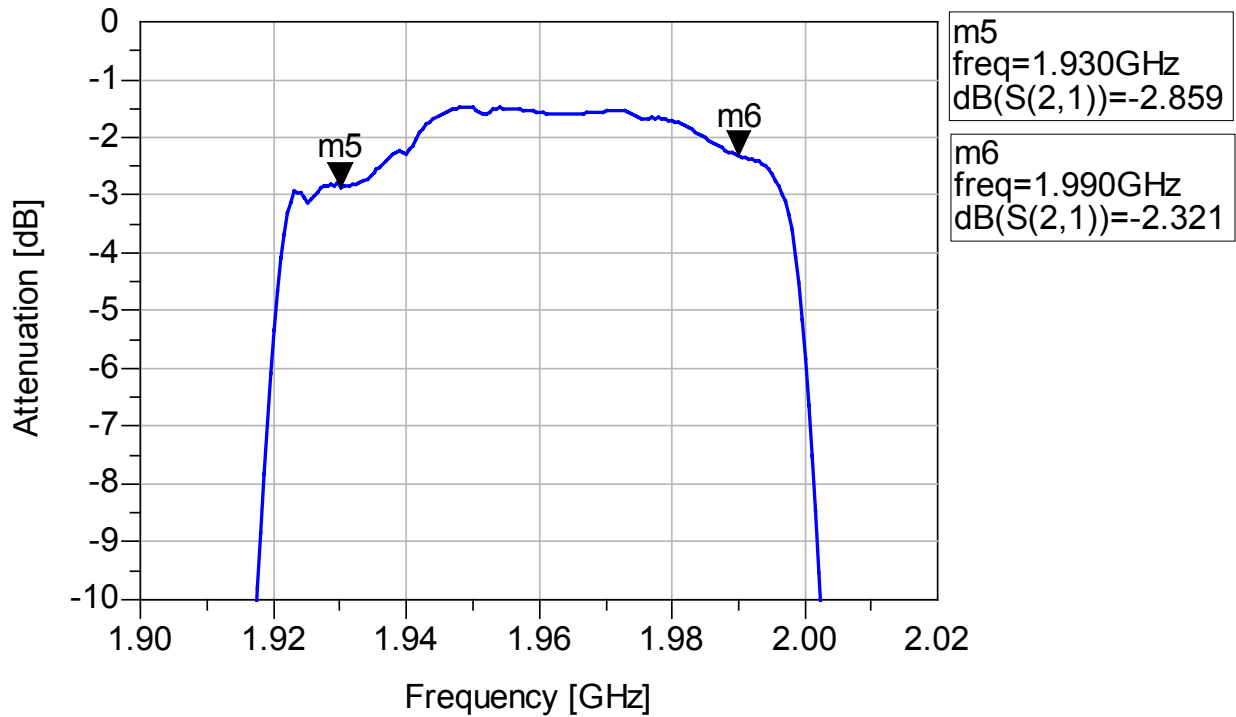


Fig.3 In-band Characteristics

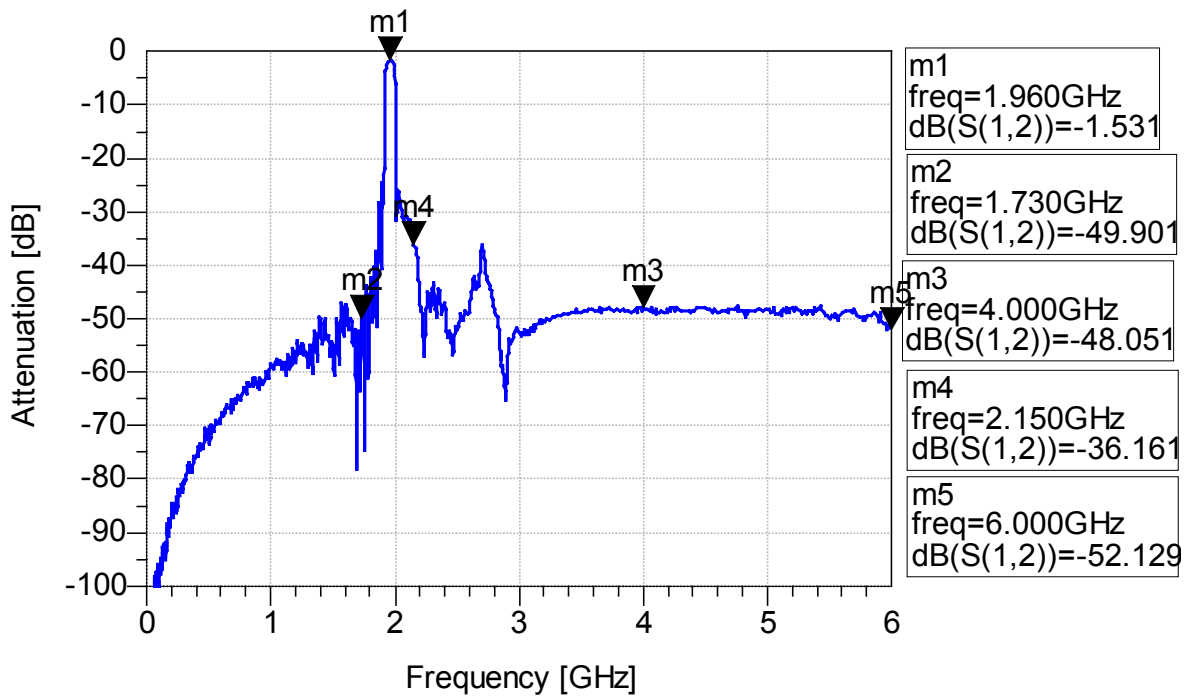


Fig.4 Wide-band Characteristics

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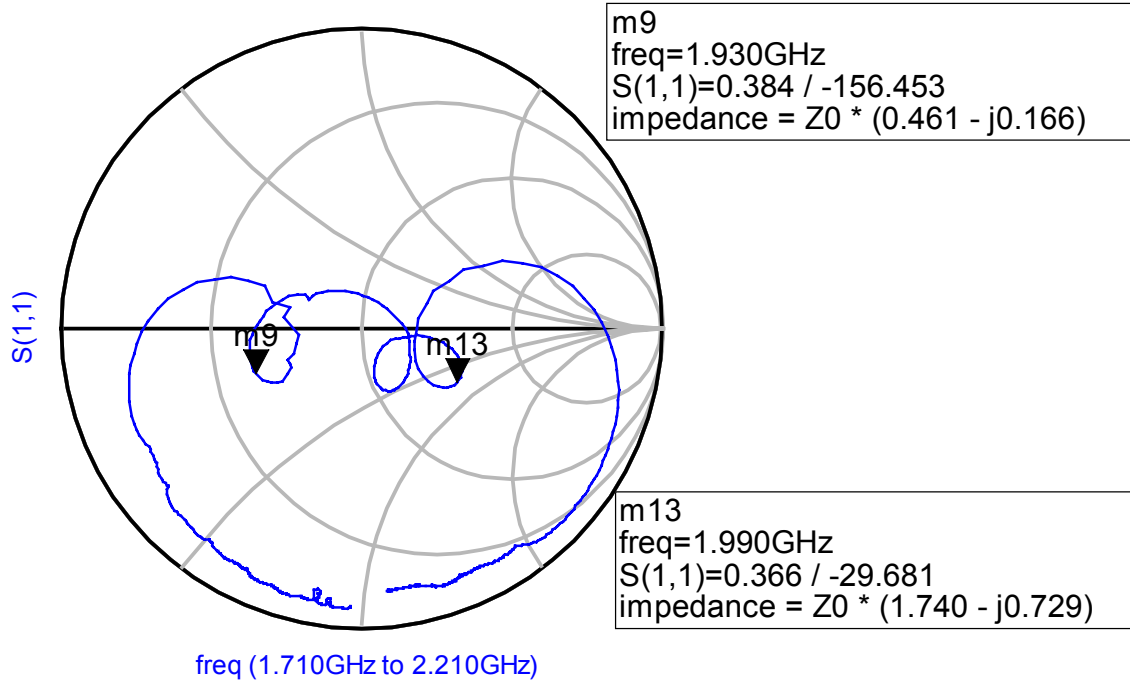


Fig.5 Input Impedance (Unbalance)

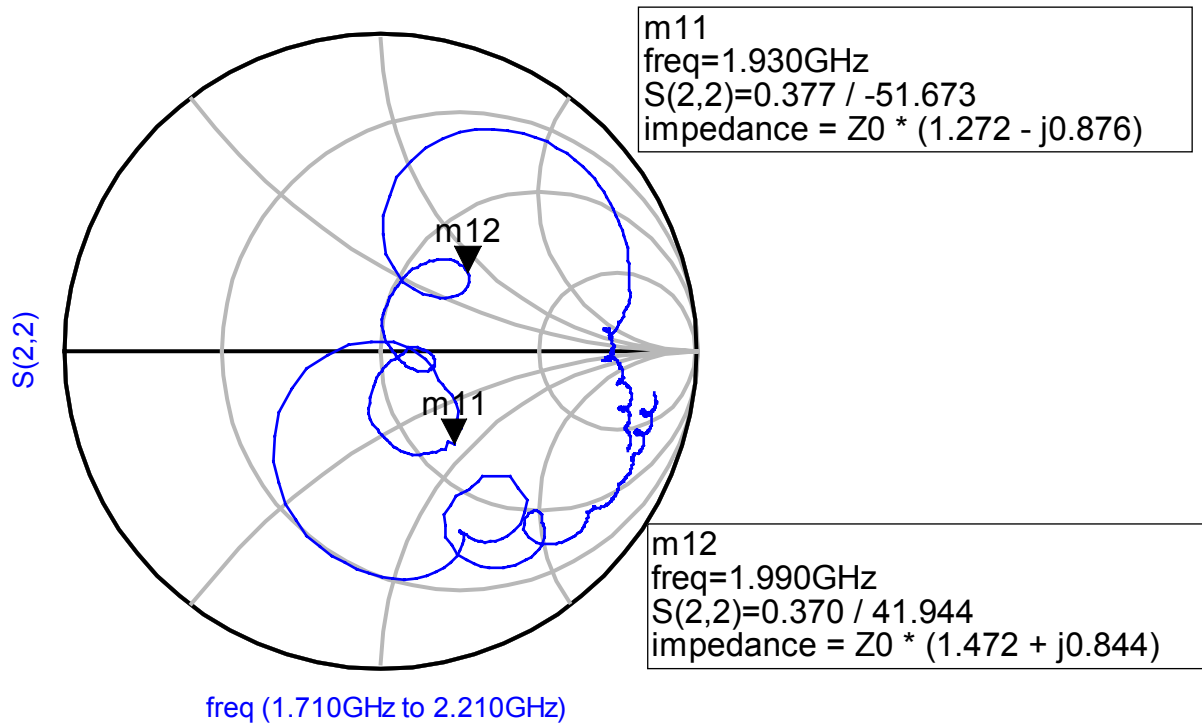


Fig.6 Output Impedance (Balance)

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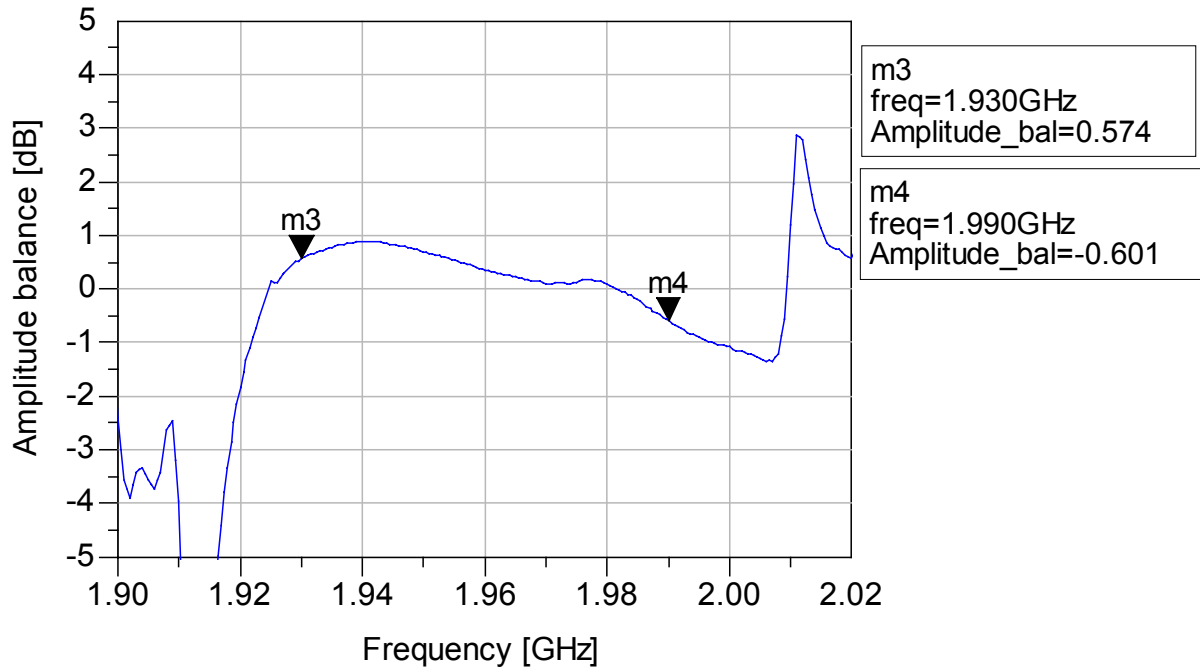


Fig.7 Amplitude Balance

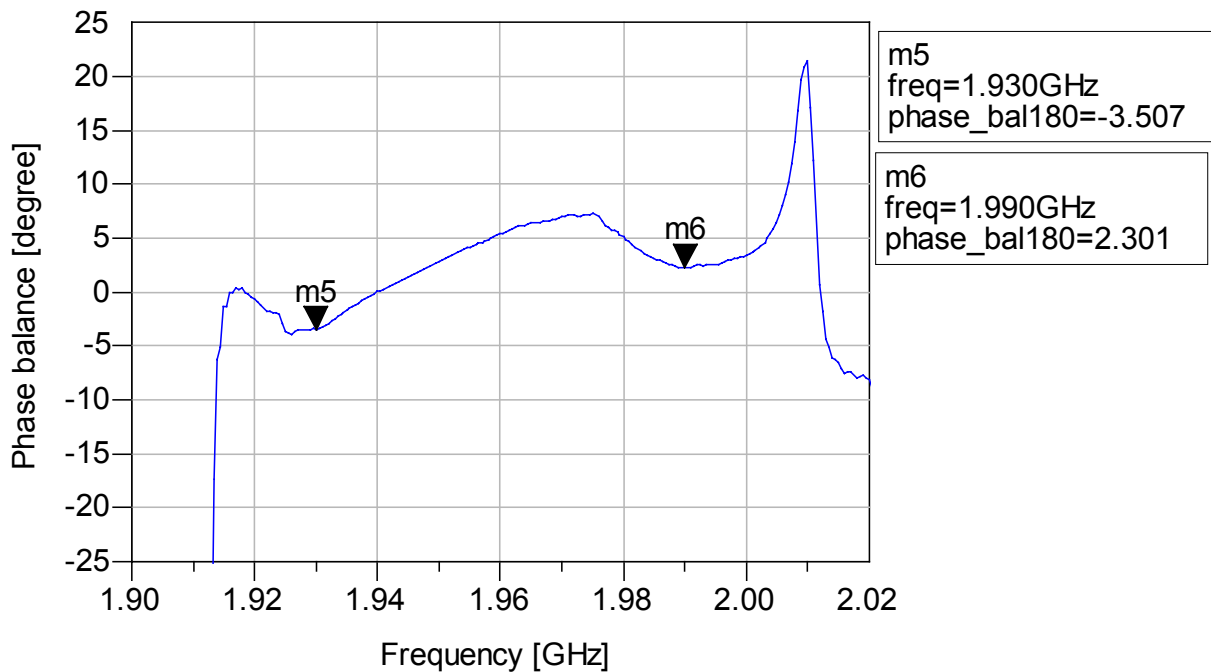


Fig.8 Phase Balance