

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
System	PCS-Rx (50/150)	DATE	July 11, 2003
FMD Part Number	FAR-F6EB-1G9600-B2BW	Version 1.0f	

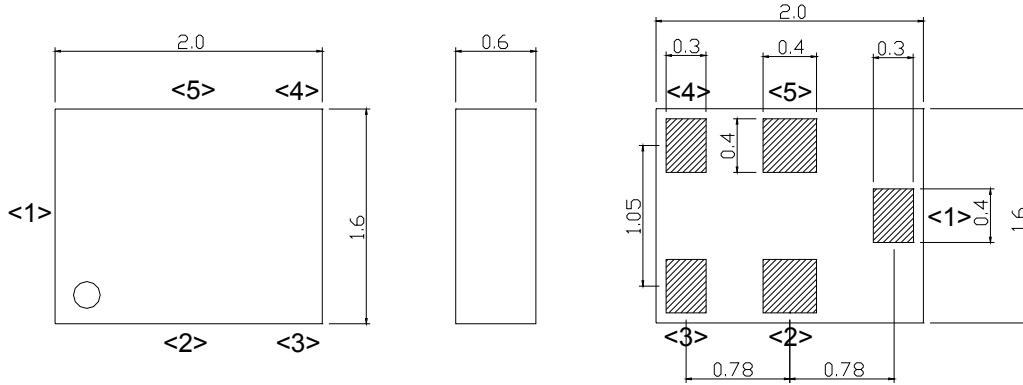
Table 1. Electrical specifications

Passband:1930 ~ 1990 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930~1990 MHz	-	1.9	2.6	dB	+25+/-2°C
		-	-	2.8	dB	
Ripple	1930~1990 MHz	-	0.5	1.6	dB	
VSWR (Input)	1930~1990 MHz	-	1.5	2.1	-	
VSWR (Output)	1930~1990 MHz	-	1.7	2.2	-	
Absolute attenuation	DC~1830 MHz	30	41	-	dB	
		13	17	-	dB	+25+/-2°C
	1830~1910 MHz	9	-	-	dB	-30 ~ +70 °C
		8	-	-	dB	
	2010~2070 MHz	14	20	-	dB	+25+/-2°C
		9	-	-	dB	-10 ~ +85 °C
	8	-	-	dB		
	2070~2150 MHz	21	24	-	dB	
2150~3000 MHz	26	33	-	dB		
3000~6000 MHz	35	50	-	dB		
Amplitude Balance S21 / S31	1930~1990 MHz	-1.9	-0.7/+0.9	+1.4	dB	
Phase Balance (ΦS21-ΦS31)	1930~1990 MHz	-15	-8/+7	+15	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	150//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

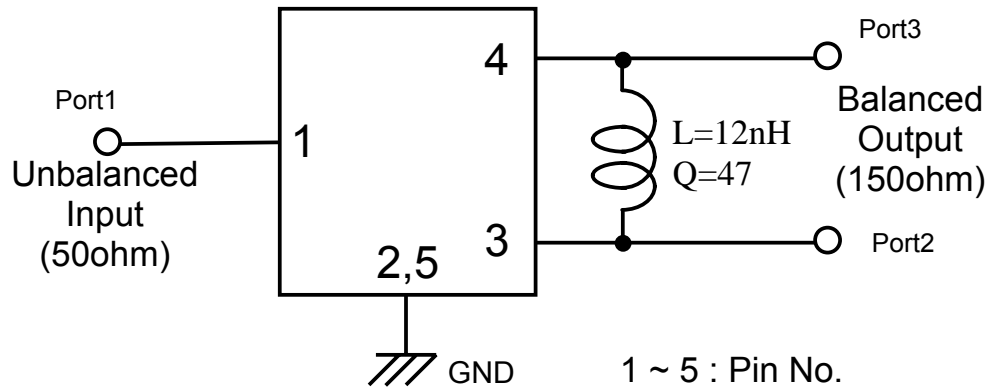


Unit: mm

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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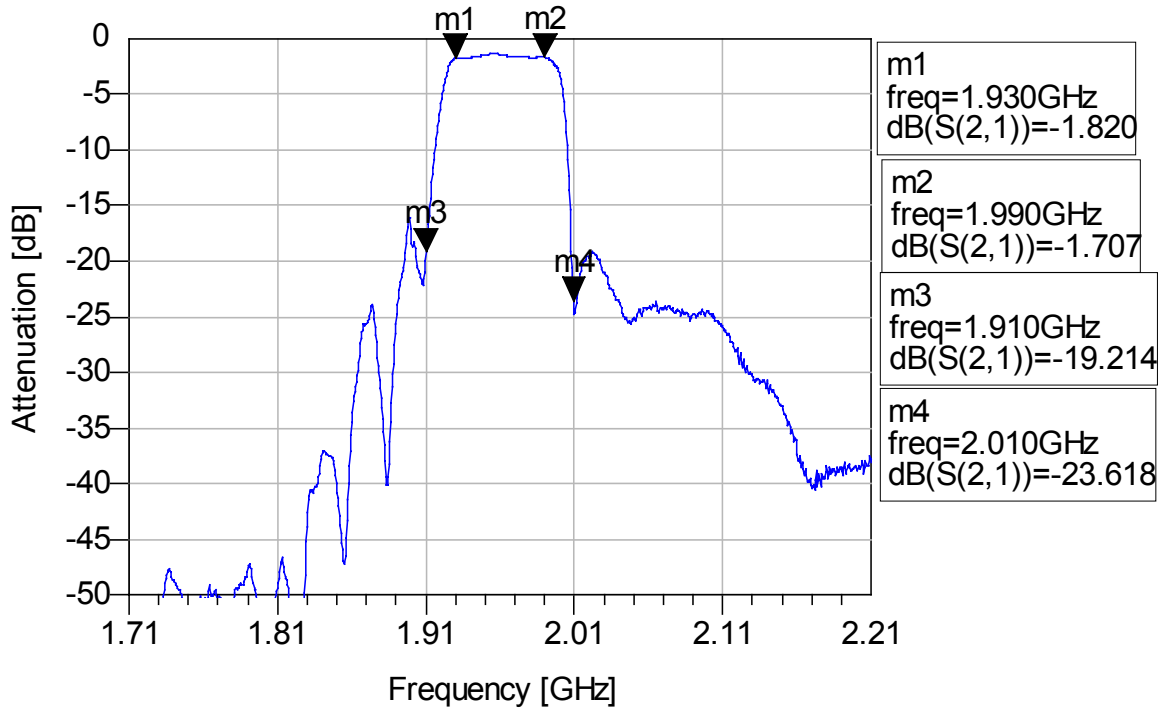


Fig.1 Pass-band Characteristics

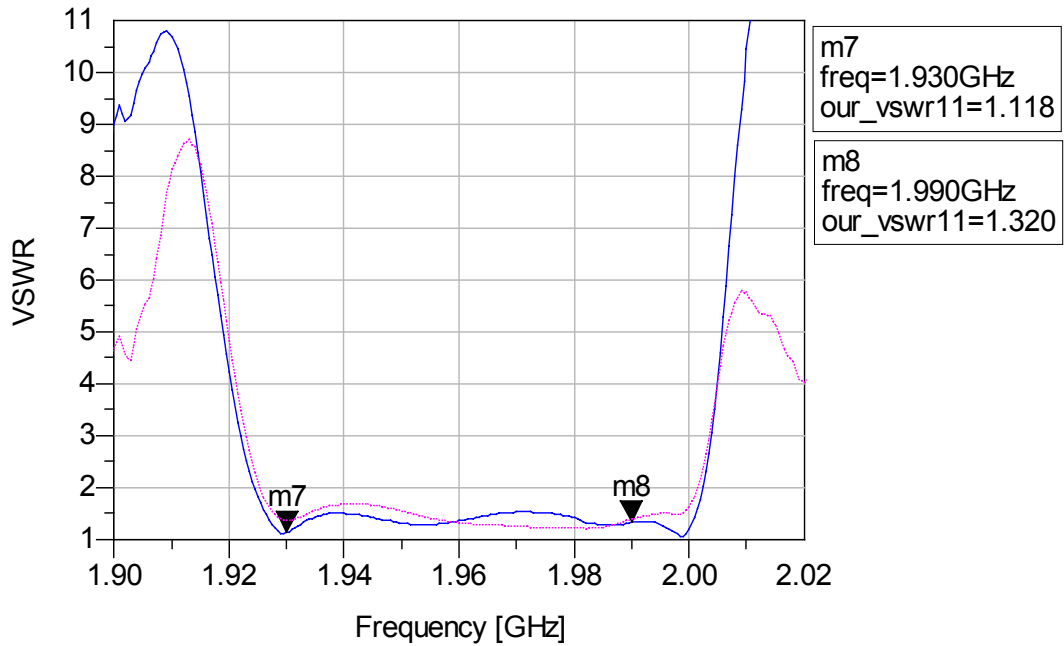


Fig.2 VSWR

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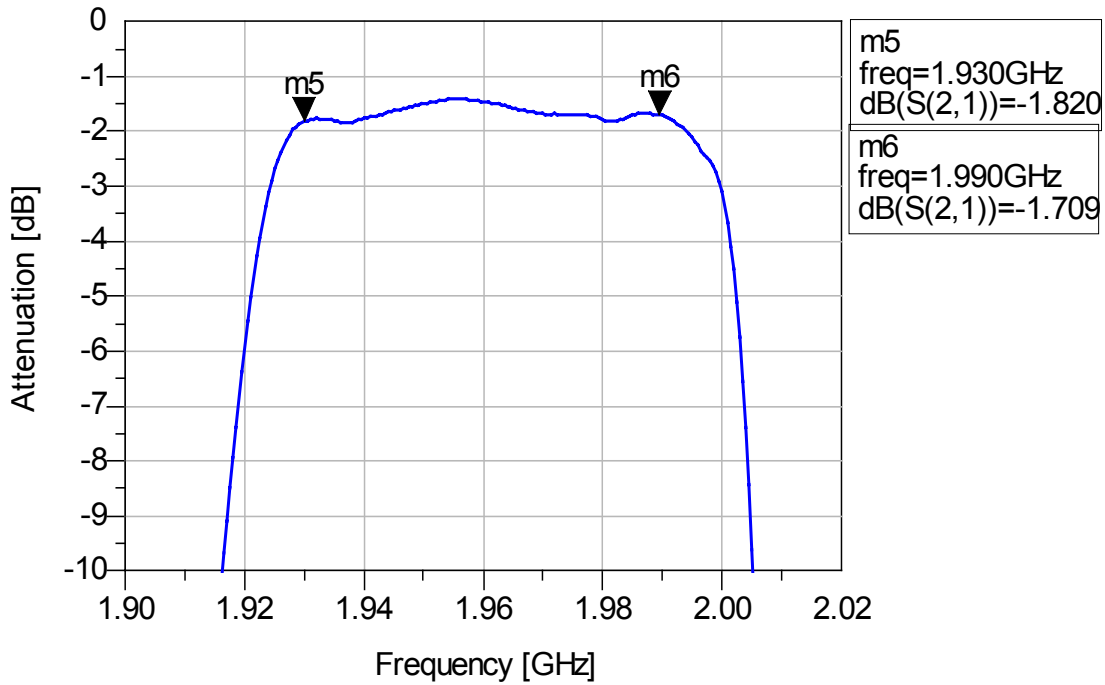


Fig.3 In-band Characteristics

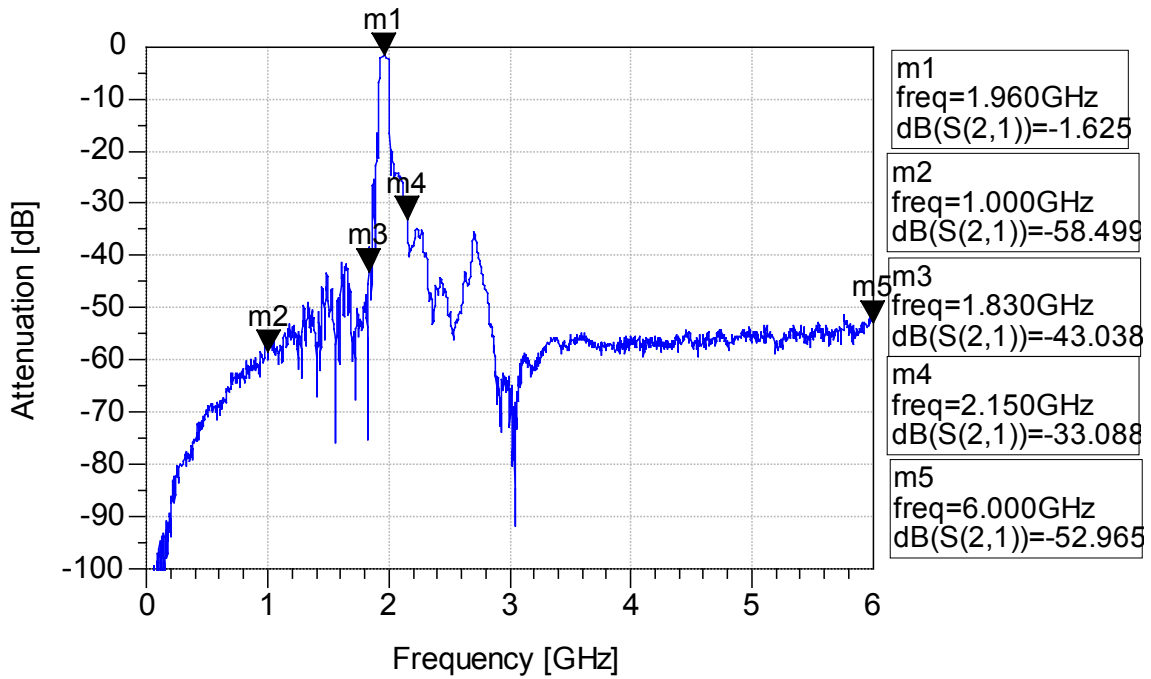


Fig.4 Wide-band Characteristics

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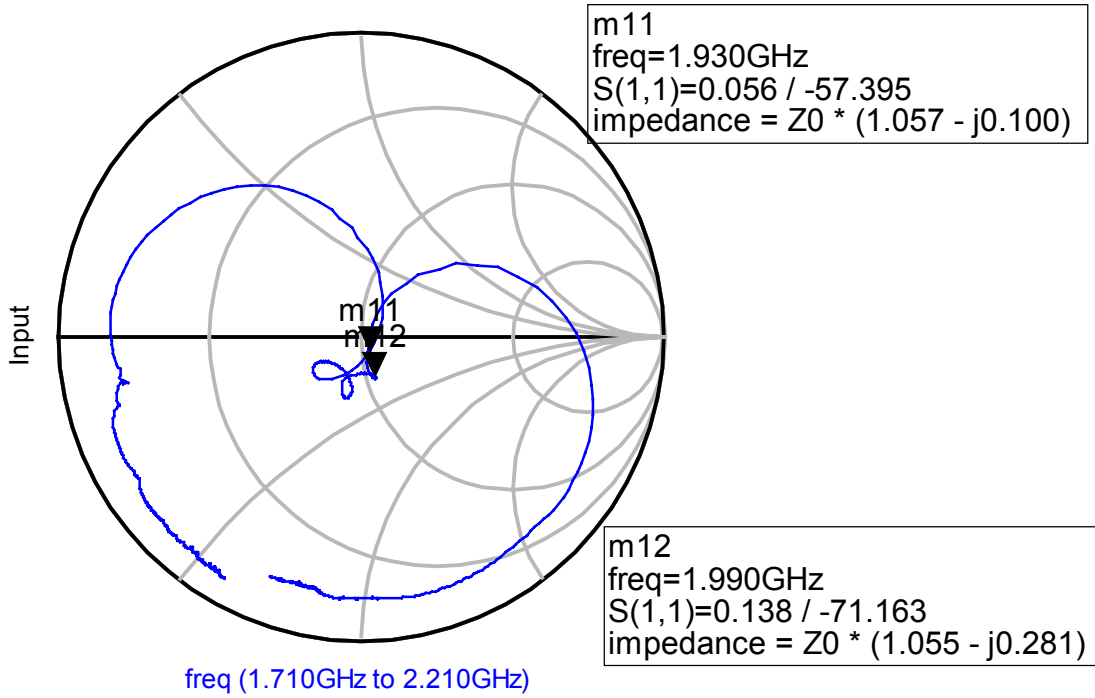


Fig.5 Input Impedance (Unbalance)

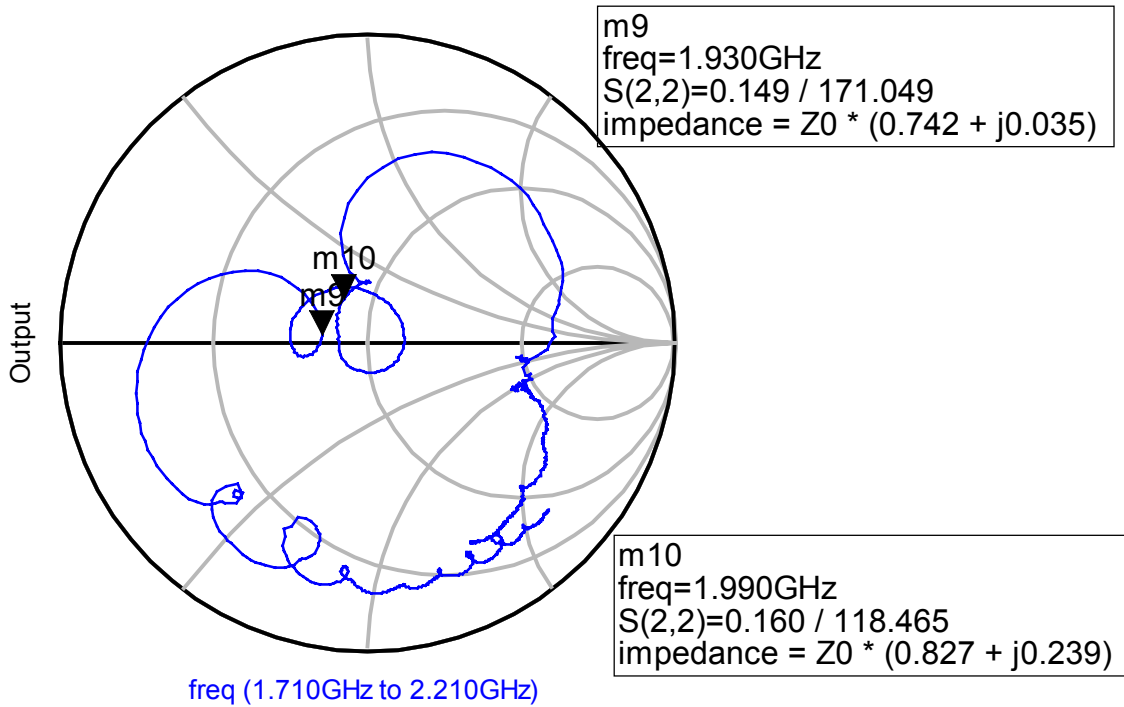


Fig.6 Output Impedance (Balance)

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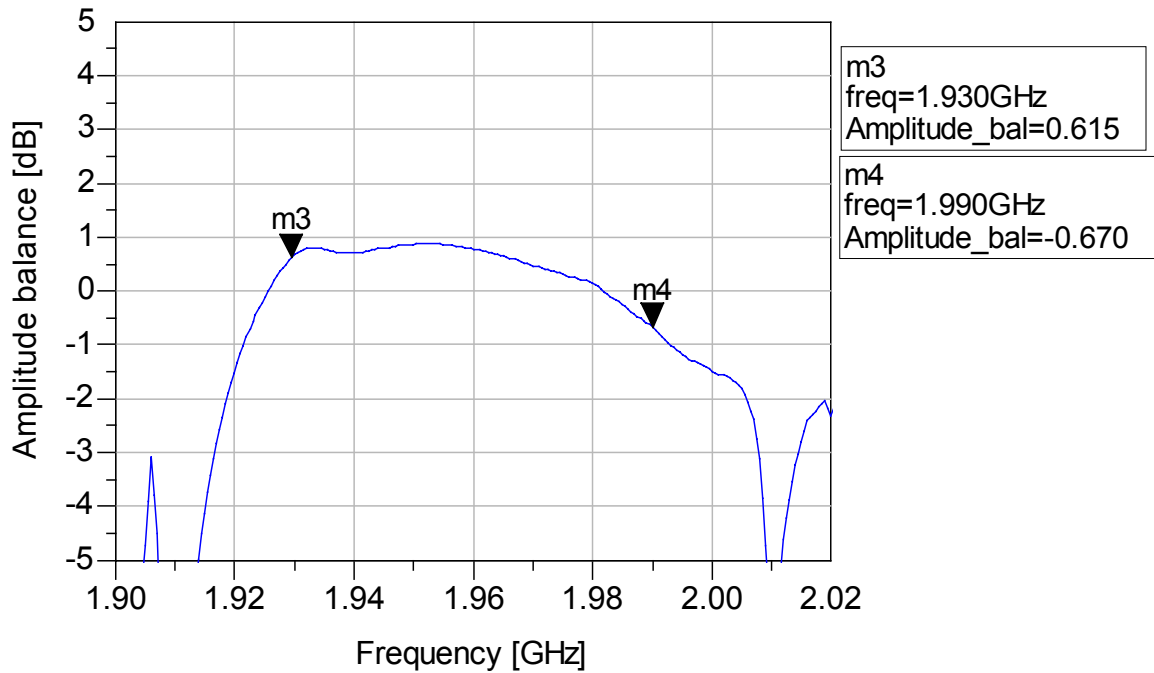


Fig.7 Amplitude Balance

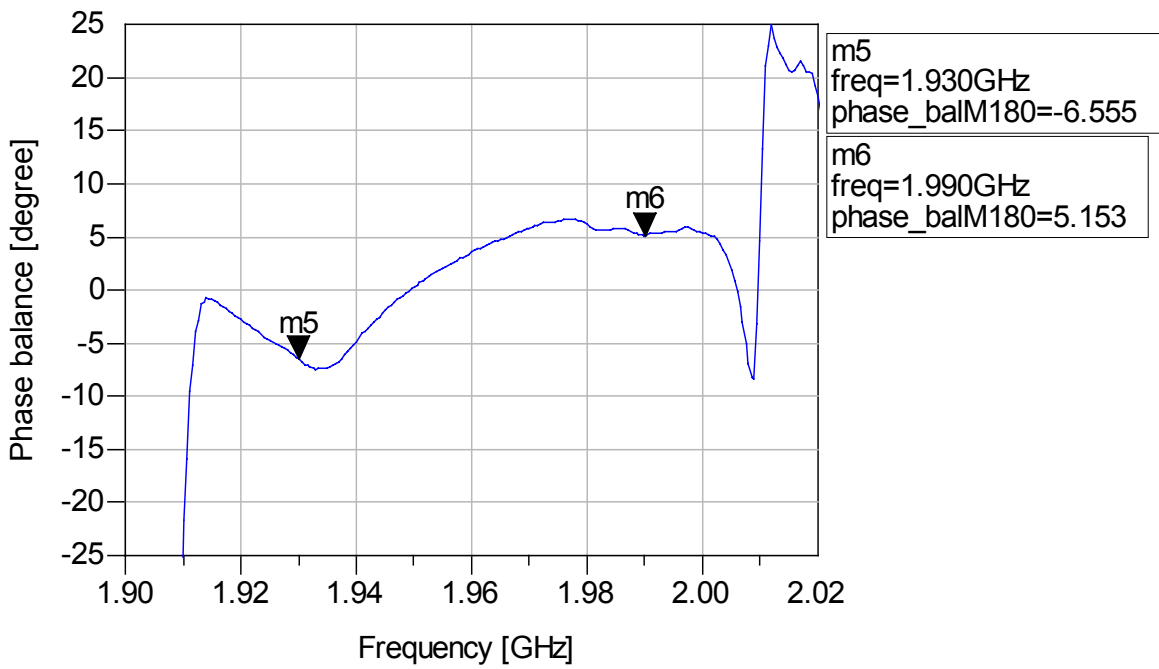


Fig.8 Phase Balance