

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
System	PCS-Rx (50/50ohm)	DATE	Nov. 19, 2003
FMD Part Number	FAR-F6EC-1G9600-B2CJ	Version 2.1b	

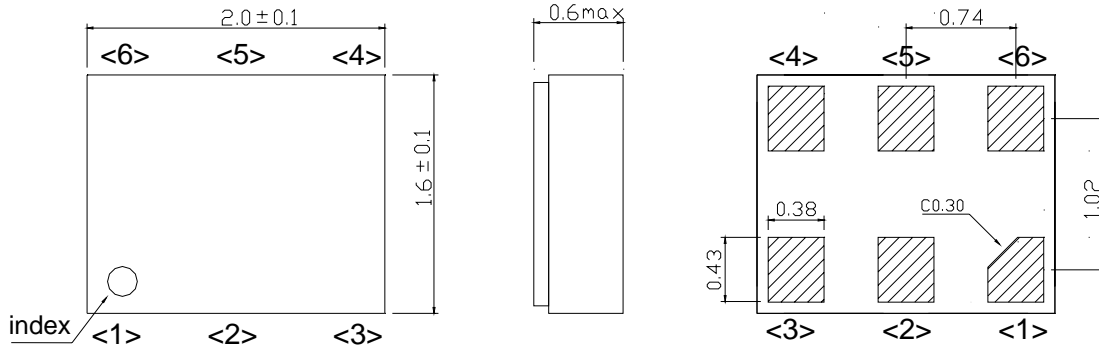
Table 1. Electrical specifications

Passband:1930 ~ 1990 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930~1990 MHz	-	2.4	3.3	dB	-20 ~ +75 °C
		-	-	3.4		
Ripple	1930~1990 MHz	-	0.5	2.0	dB	
Absolute attenuation	DC~1830 MHz	25	31	-	dB	
	1830~1900 MHz	14	26	-	dB	
	1900~1910 MHz	9	18	-	dB	
	2010~2020 MHz	8	22	-	dB	
	2020~2500 MHz	15	21	-	dB	
	2500~4000 MHz	20	27	-	dB	
	4000~6000 MHz	11	20	-	dB	
VSWR (Input)	1930~1990 MHz	-	2.0	2.5	-	
VSWR (Output)	1930~1990 MHz	-	2.0	2.5	-	
Phase balance ($\Phi S_{21} - \Phi S_{31}$)+180	1930~1990 MHz	-15	-11/ +12	+17	deg.	-20 ~ +75 °C
		-18	-	+20	deg.	
Amplitude balance $ S_{21} / S_{31} $	1930~1990 MHz	-2.5	-1.9/ +1.0	+2.8	dB	-20 ~ +75 °C
		-2.7	-	+2.9		
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	50			Ohm	
Operating Temperature		-30 ~ +85			°C	
Device size		2.0typ.x1.6typ.x0.6max.			mm	

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Dimension

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

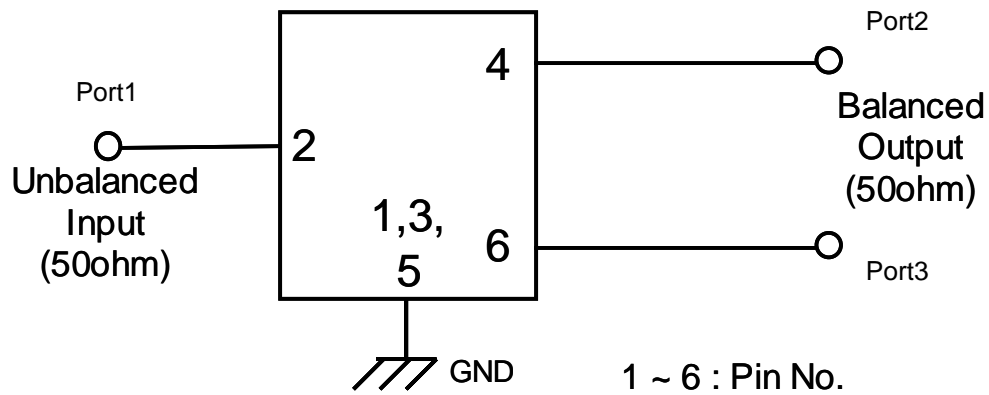


Unit: mm

Pin Configuration

Pin No.	Symbol	Function
1	GND	Ground
2	IN	Unbalanced pin
3	GND	Ground
4	OUT	Balanced pin
5	GND	Ground
6	OUT	Balanced pin

Evaluation Circuit



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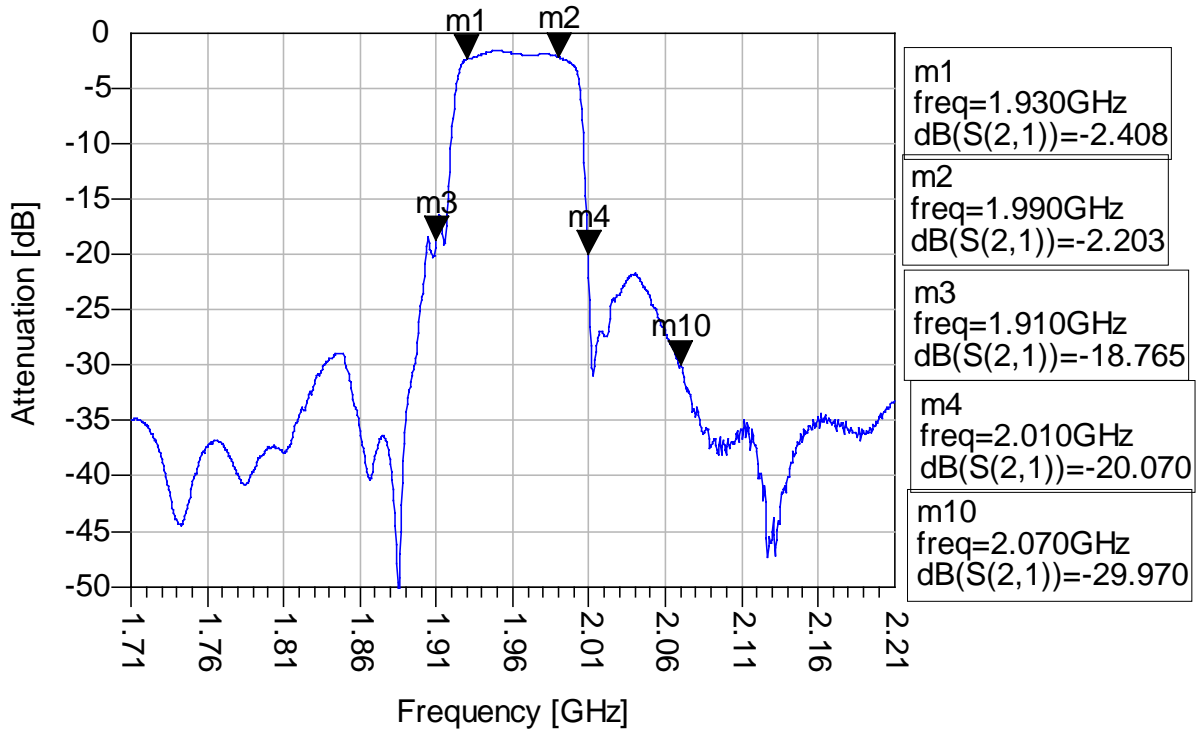


Fig.1 Pass-band Characteristics

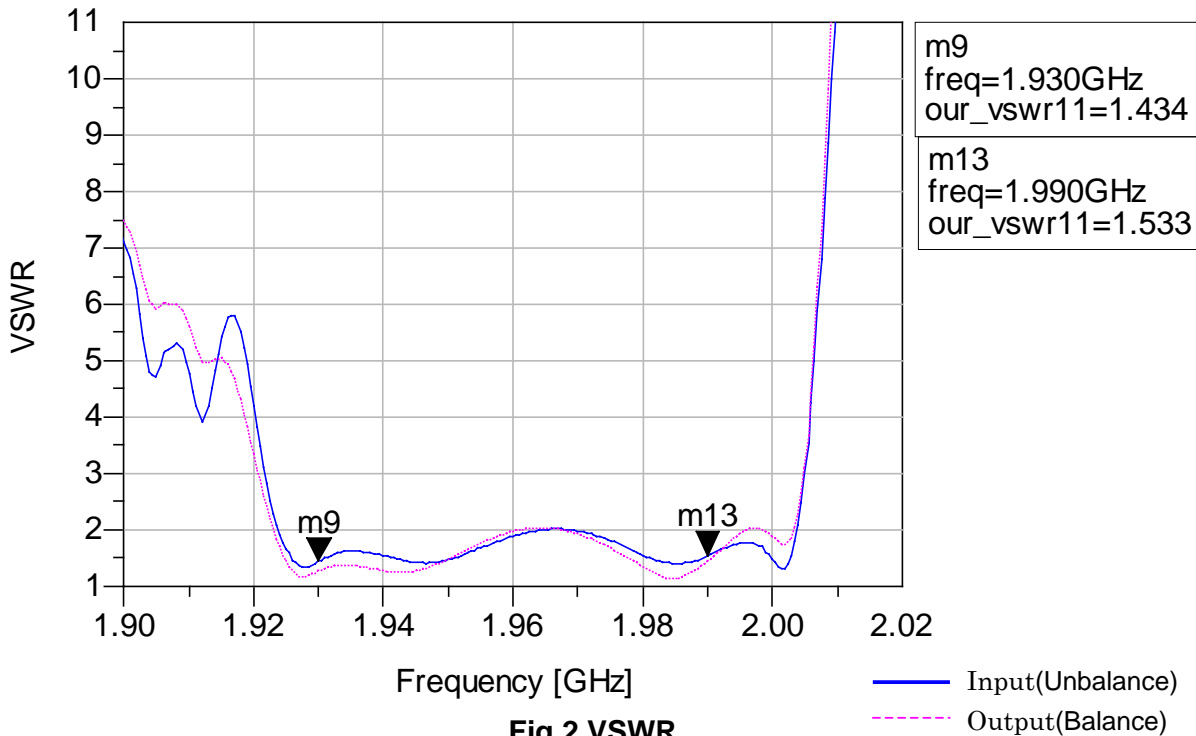


Fig.2 VSWR

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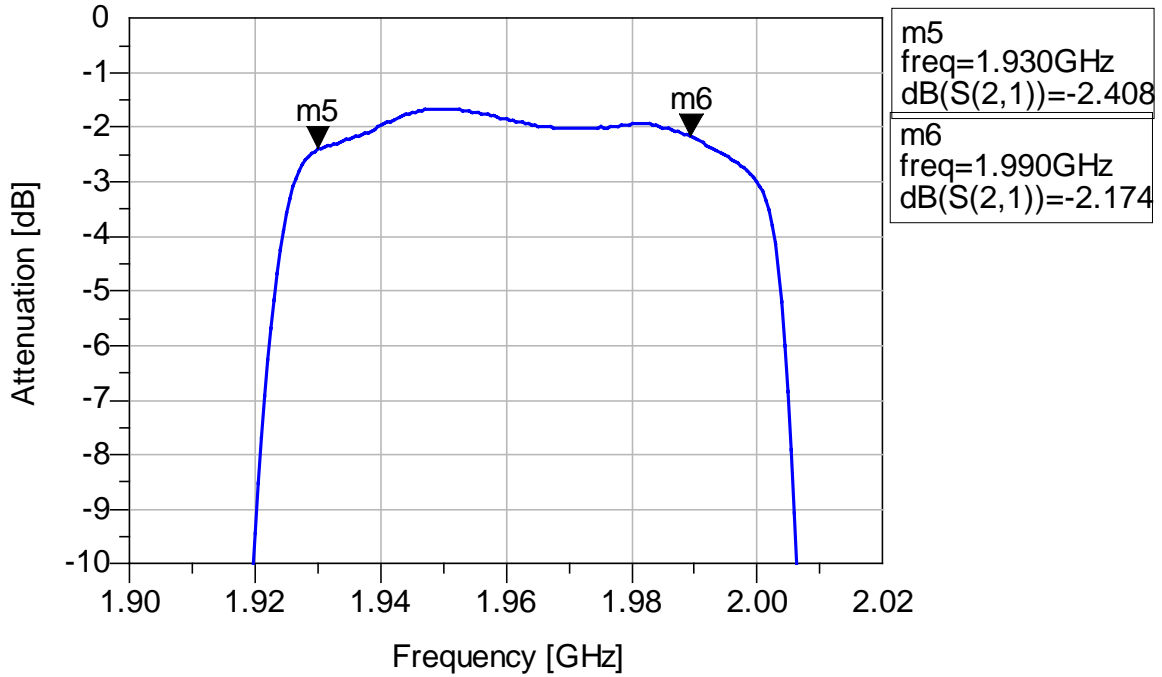


Fig.4 In-band Characteristics

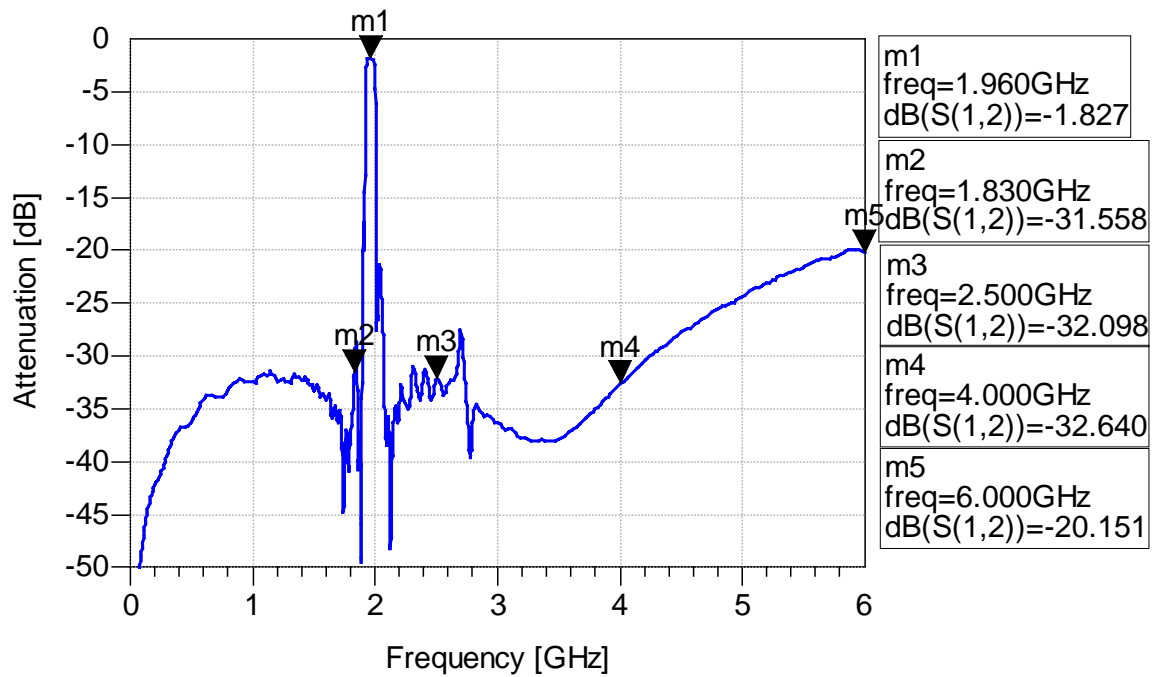


Fig.5 Wide-band Characteristics

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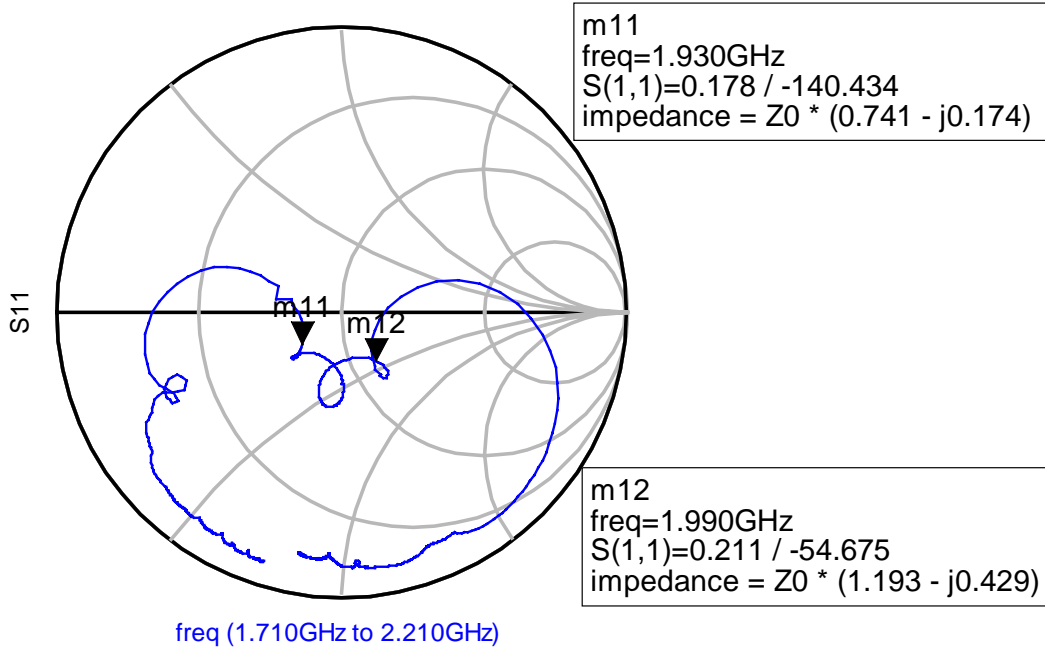


Fig.6 Input Impedance (Unbalance)

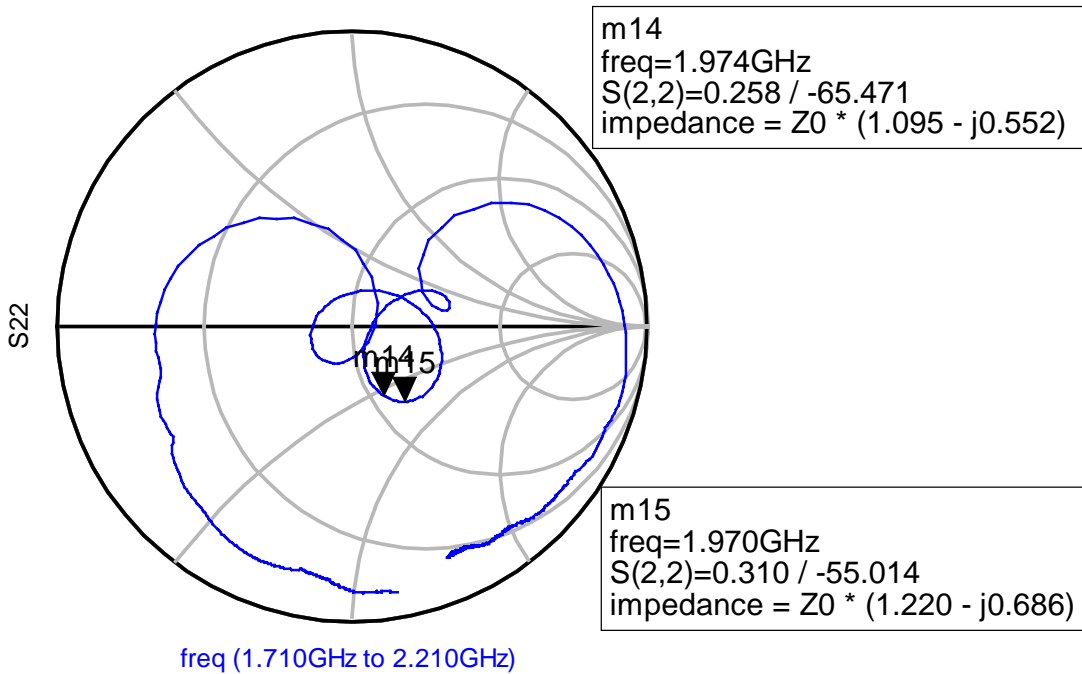


Fig.7 Output Impedance (Balance)

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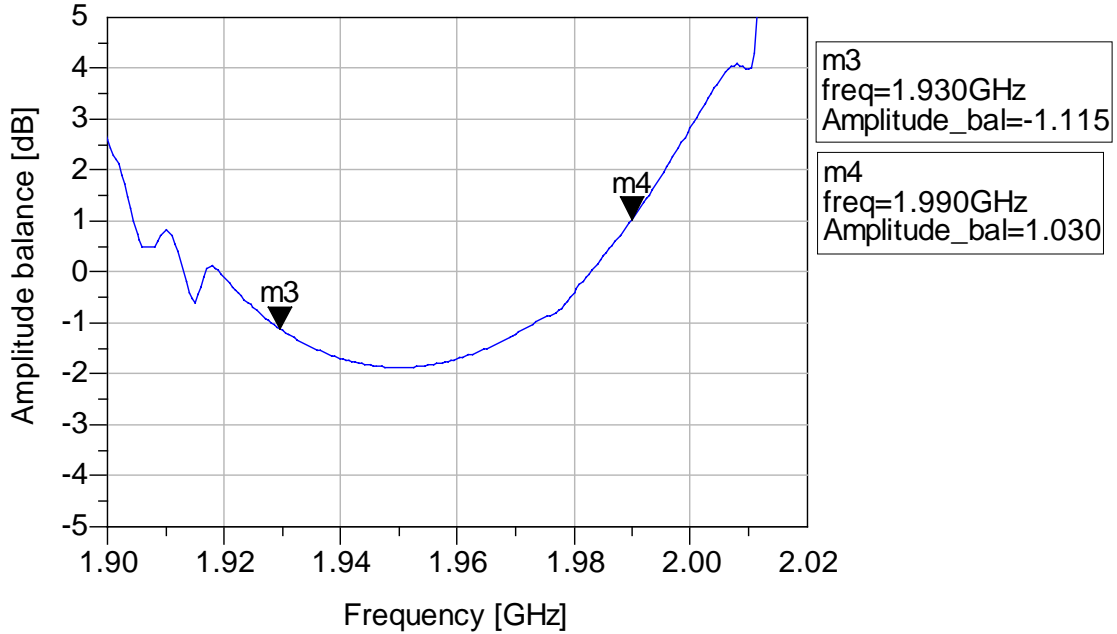


Fig.8 Amplitude Balance

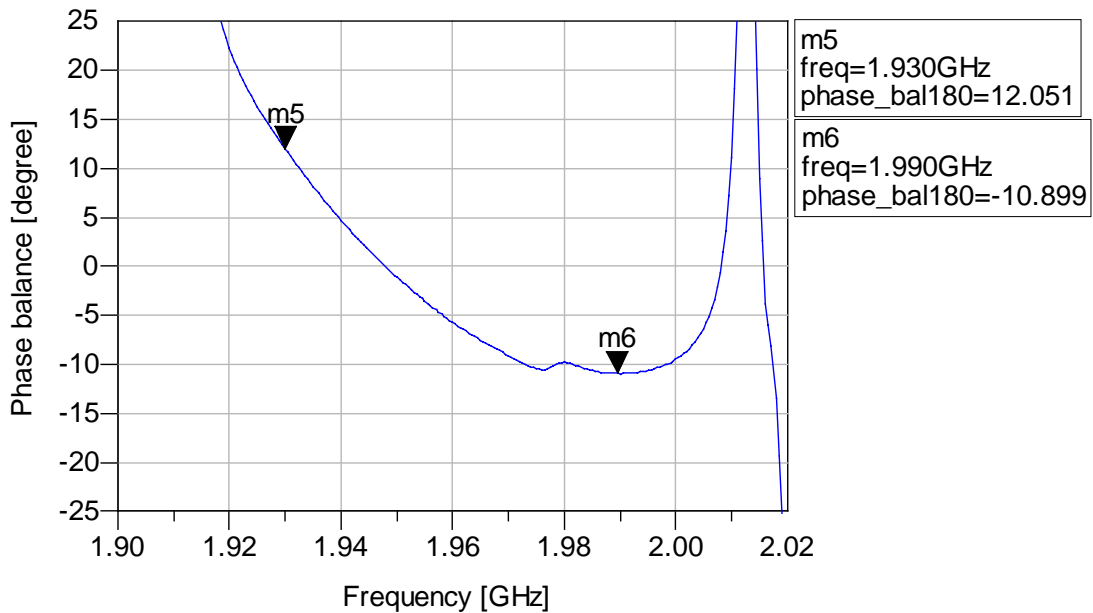


Fig.9 Phase Balance