

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
System	PCS-Rx (50/150)	DATE	Nov.16, 2003
FMD Part Number	FAR-F6EC-1G9600-B2CW	Version 1.0e	

Table 1. Electrical specifications

Passband:1930 ~ 1990 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930~1990 MHz	-	1.6	2.2	dB	+25+/-2°C
		-	-	2.6	dB	
Ripple	1930~1990 MHz	-	0.5	1.8	dB	
Absolute attenuation	DC~1830 MHz	30	44	-	dB	
	1830~1910 MHz	15	19	-	dB	+25+/-2°C
		11	-	-	dB	
	2010~2070 MHz	15	23	-	dB	+25+/-2°C
		10	-	-	dB	
	2070~2150 MHz	22	25	-	dB	
	2150~3000 MHz	30	35	-	dB	
3000~6000 MHz	28	36	-	dB		
VSWR (Input)	1930~1990 MHz	-	1.7	2.2	-	
VSWR (Output)	1930~1990 MHz	-	1.6	2.2	-	
Amplitude Balance S21 / S31	1930~1990 MHz	-1.5	-0.7/+1.1	+1.6	dB	
Phase Balance ($\phi_{S21}-\phi_{S31}$)-180	1930~1990 MHz	-10	-3/+4	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	150//18nH			Ohm	
Operating Temperature		-10 ~ +80			°C	
Device size		2.0typ.x1.6typ.x0.6max.			mm	

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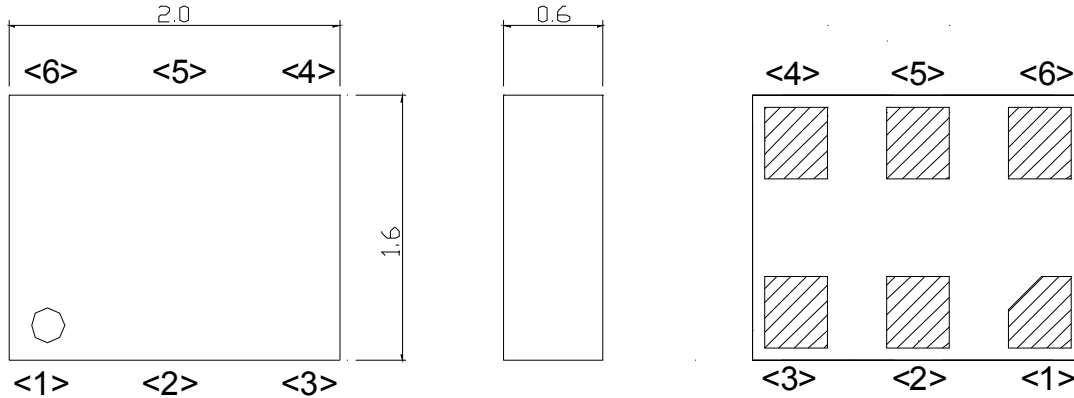
Table 2. Electrical specifications

Passband:1930 ~ 1990 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930~1990 MHz	-	1.6	2.2	dB	+25+/-2°C
		-	-	2.8	dB	
Ripple	1930~1990 MHz	-	0.5	1.8	dB	
Absolute attenuation	DC~1830 MHz	30	44	-	dB	
	1830~1910 MHz	15	19	-	dB	+25+/-2°C
		10	-	-	dB	
	2010~2070 MHz	15	23	-	dB	+25+/-2°C
		10	-	-	dB	
	2070~2150 MHz	22	25	-	dB	
	2150~3000 MHz	30	35	-	dB	
3000~6000 MHz	28	36	-	dB		
VSWR (Input)	1930~1990 MHz	-	1.7	2.2	-	
VSWR (Output)	1930~1990 MHz	-	1.6	2.2	-	
Amplitude Balance S ₂₁ / S ₃₁	1930~1990 MHz	-1.5	-0.7/+1.1	+1.6	dB	
Phase Balance ($\phi_{S21}-\phi_{S31}$)+180	1930~1990 MHz	-10	-3/+4	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	150//18nH			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

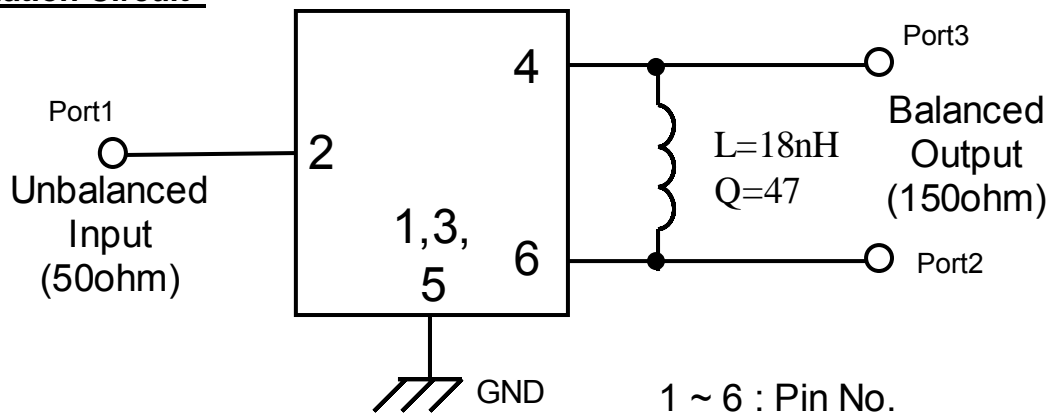


Unit: mm

Pin Configuration

Pin No.	Symbol	Function
1	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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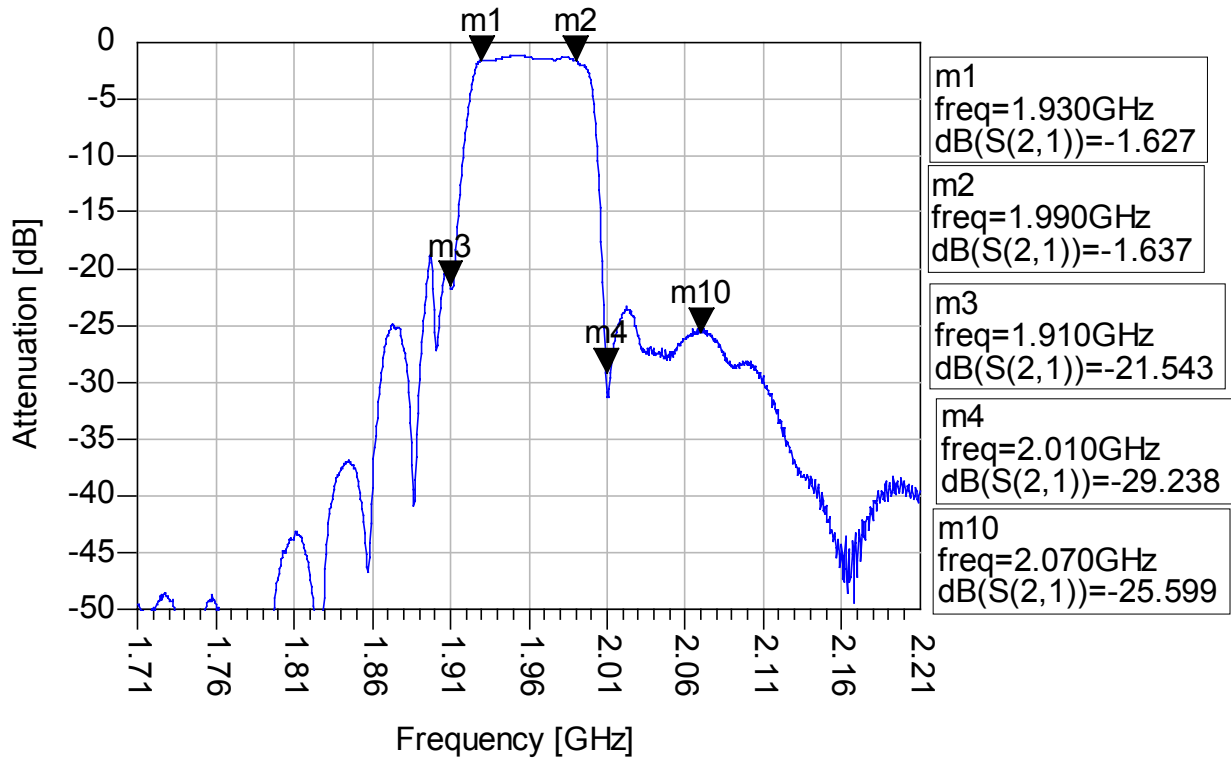


Fig.1 Pass-band Characteristics

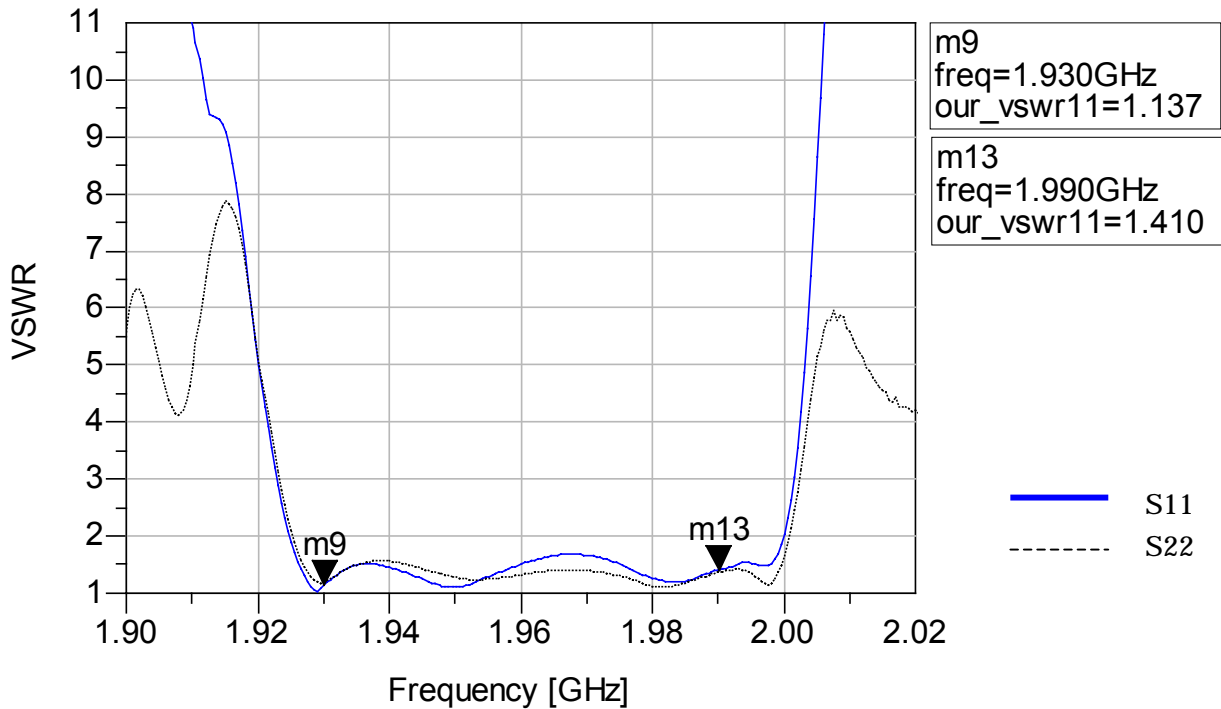


Fig.2 VSWR

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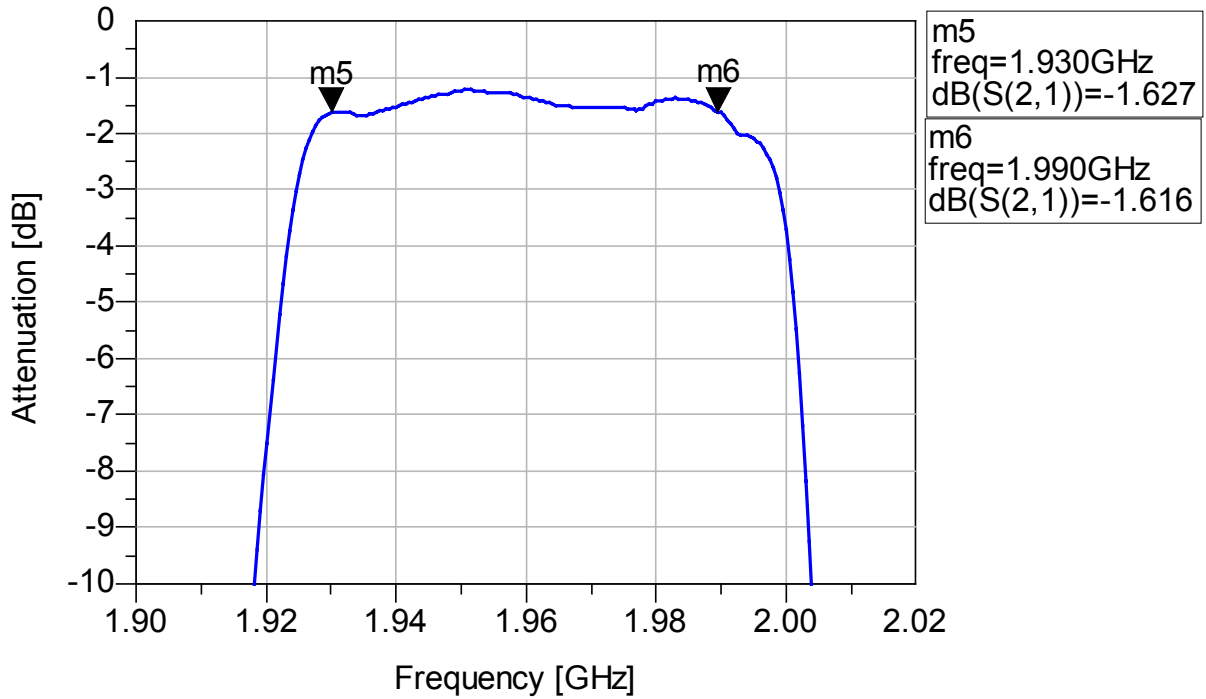


Fig.3 In-band Characteristics

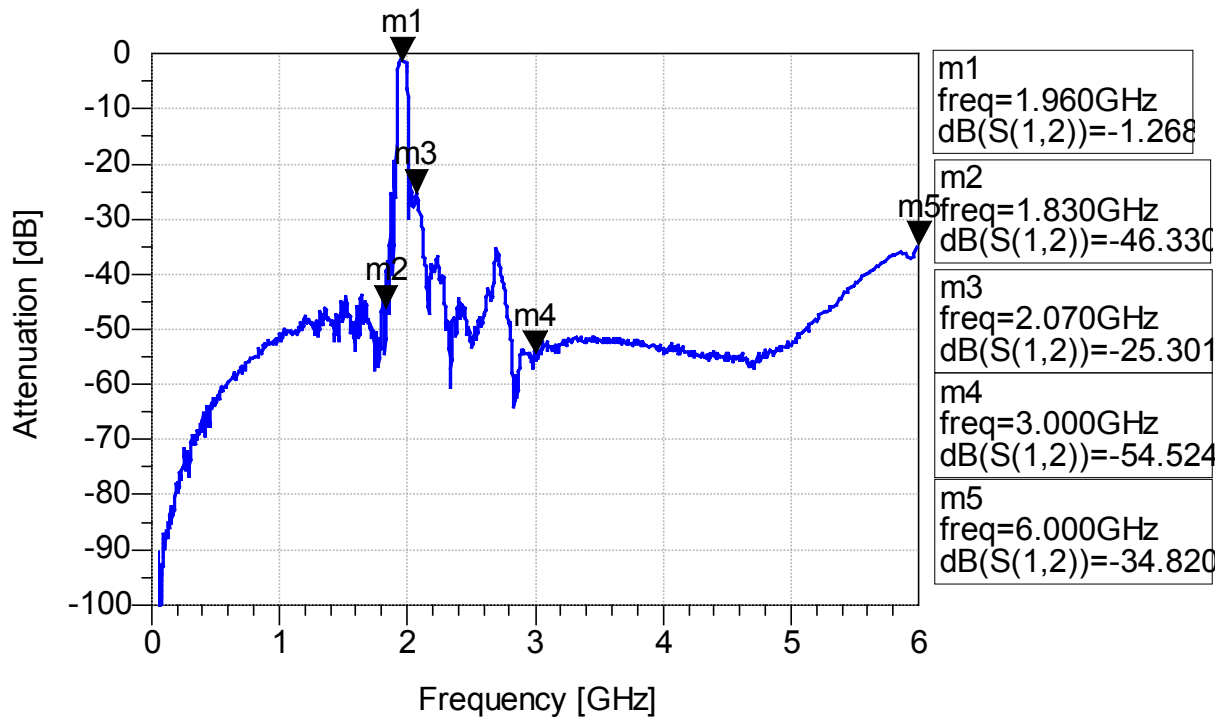


Fig.4 Wide-band Characteristics

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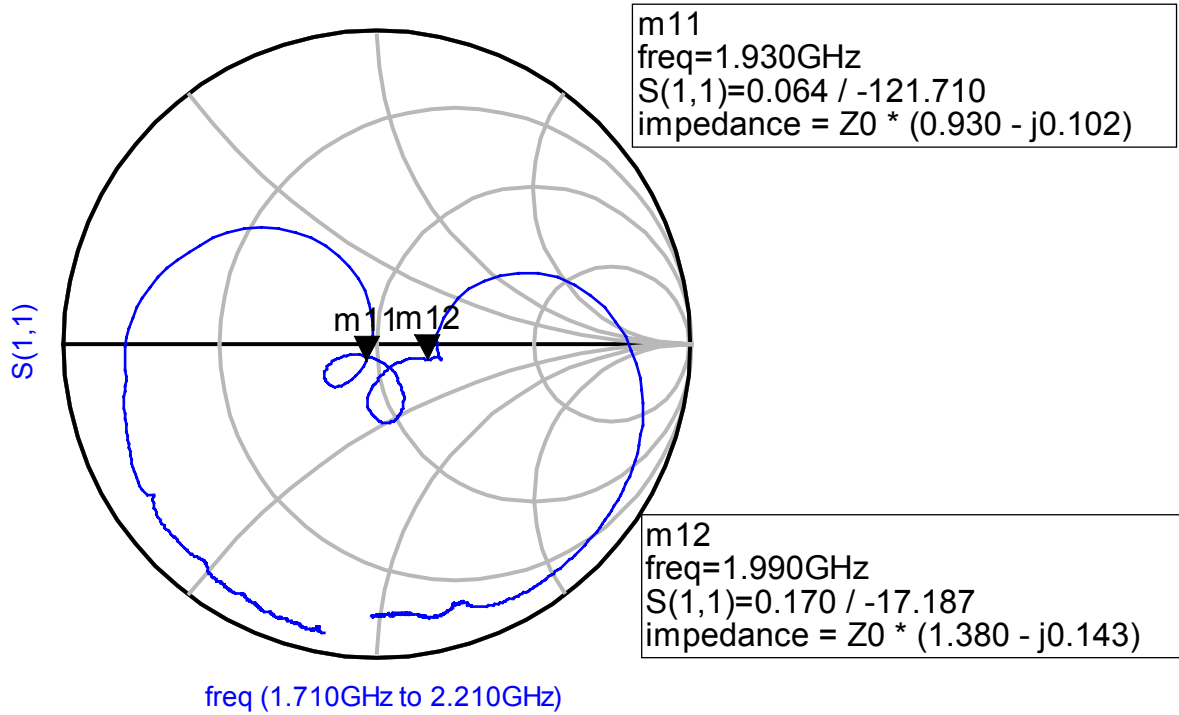


Fig.5 Input Impedance (Unbalance)

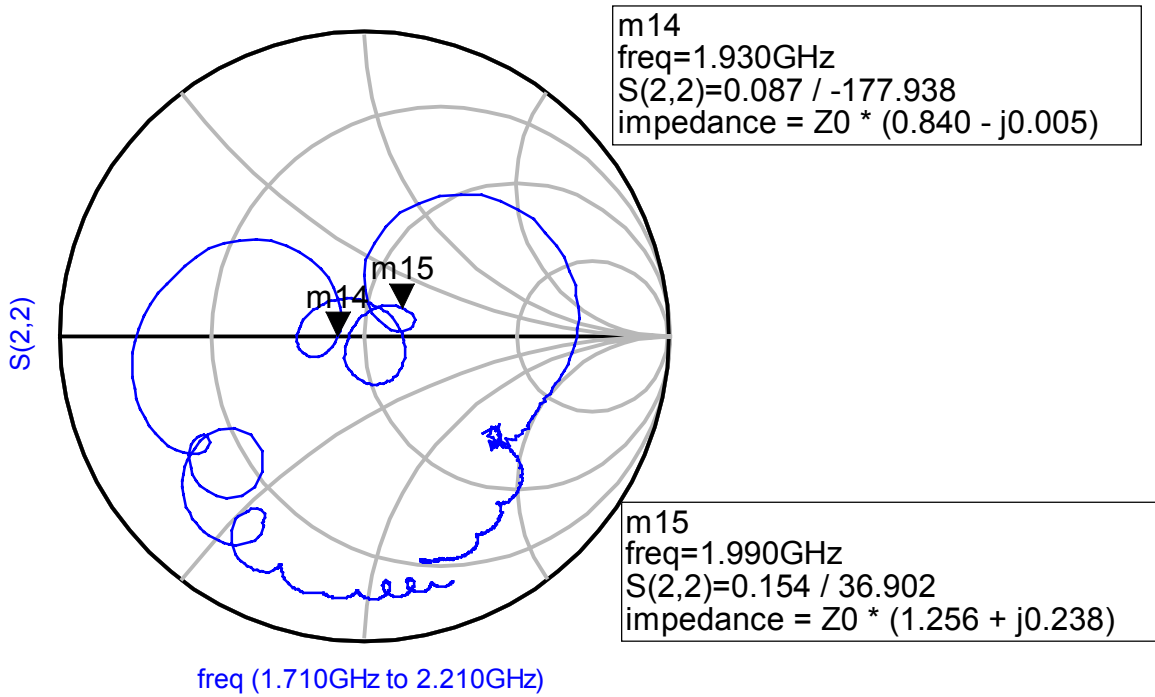


Fig.6 Output Impedance (Balance)

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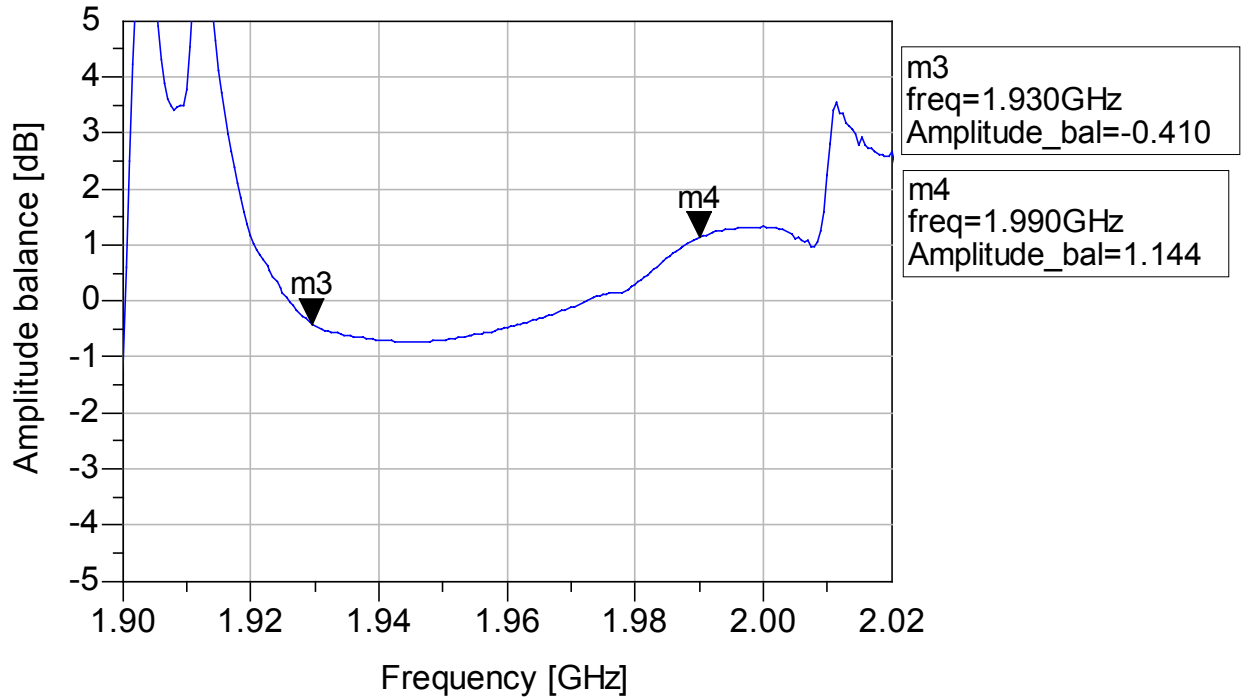


Fig.7 Amplitude Balance

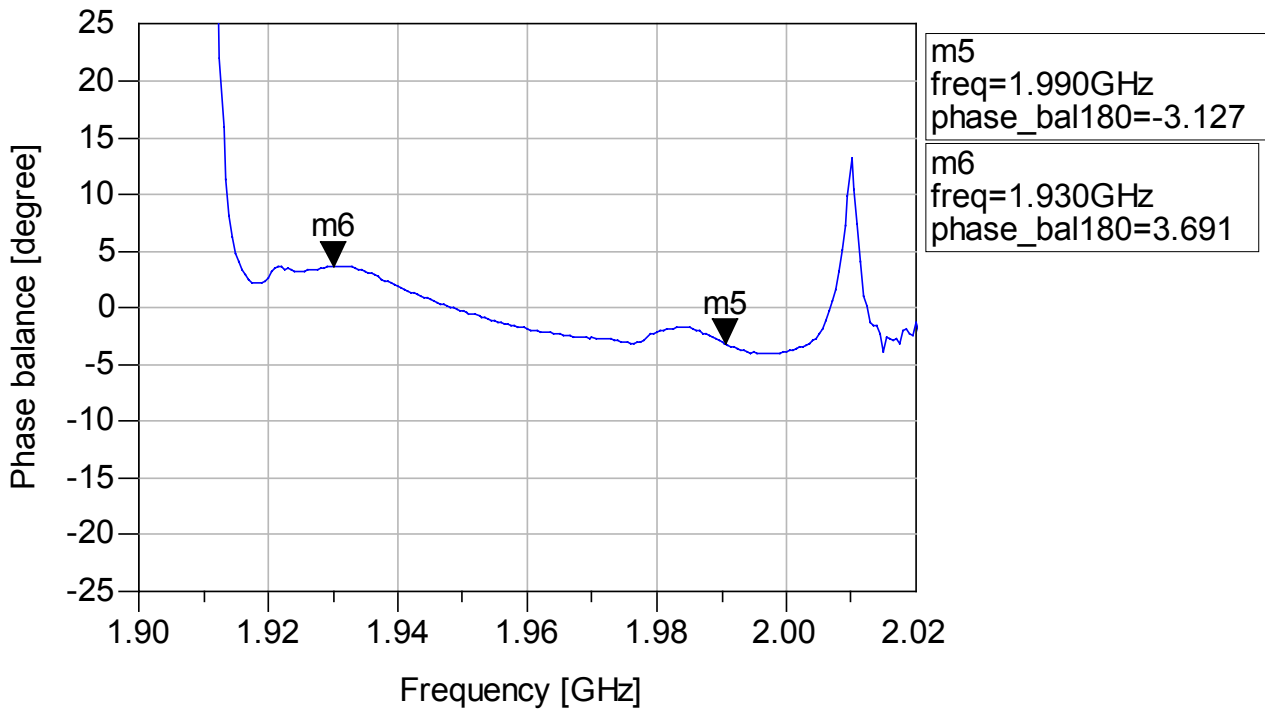


Fig.8 Phase Balance