

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
System	PCS-Rx (50/150)	DATE	Nov. 10, 2003
FMD Part Number	FAR-F6EB-1G9600-B2BE	Version 1.1h	

Table 1. Electrical specifications

Passband:1930 ~ 1990 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930~1990 MHz	-	1.7	2.3	dB	+25+/-2°C
		-	-	2.6	dB	
Ripple	1930~1990 MHz	-	0.5	1.8	dB	
Absolute attenuation	DC~1830 MHz	30	41	-	dB	
	1830~1910 MHz	15	20	-	dB	+25+/-2°C
		11	-	-	dB	
	2010~2070 MHz	15	24	-	dB	+25+/-2°C
		11	-	-	dB	
	2070~2150 MHz	23	26	-	dB	
	2150~3000 MHz	30	36	-	dB	
	3000~6000 MHz	35	48	-	dB	
VSWR (Input)	1930~1990 MHz	-	1.7	2.2	-	
VSWR (Output)	1930~1990 MHz	-	1.5	2.2	-	
Amplitude Balance S21 / S31	1930~1990 MHz	-1.4	-0.6/+0.8	+1.4	dB	
Phase Balance ($\phi S_{21}-\phi S_{31}$)-180	1930~1990 MHz	-11	-2/+5	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	150//15nH			Ohm	
Operating Temperature		-10 ~ +80			°C	
Device size		2.0typ.x1.6typ.x0.6max.			mm	

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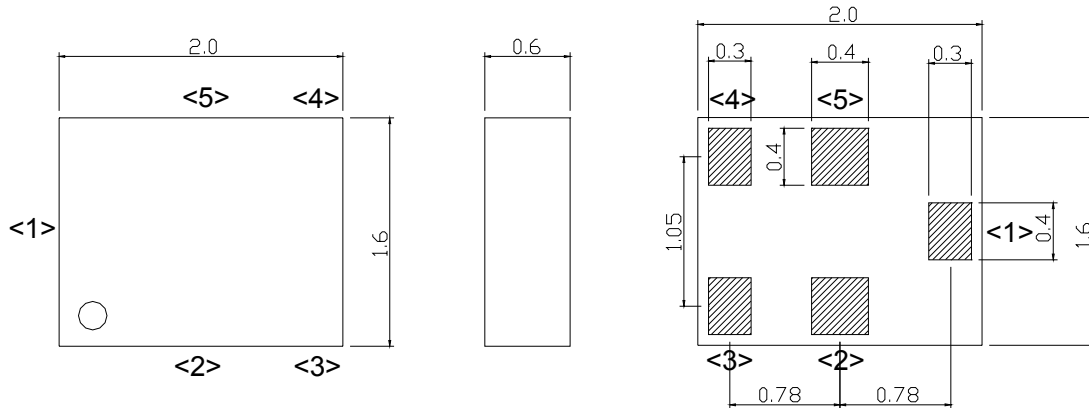
Table 2. Electrical specifications

Passband:1930 ~ 1990 MHz						
Item	Condition	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1930~1990 MHz	-	1.7	2.3	dB	+25+/-2°C
		-	-	2.9	dB	
Ripple	1930~1990 MHz	-	0.5	1.8	dB	
Absolute attenuation	DC~1830 MHz	30	41	-	dB	
	1830~1910 MHz	15	20	-	dB	+25+/-2°C
		10	-	-	dB	
	2010~2070 MHz	15	24	-	dB	+25+/-2°C
		10	-	-	dB	
	2070~2150 MHz	23	26	-	dB	
	2150~3000 MHz	30	36	-	dB	
	3000~6000 MHz	35	48	-	dB	
VSWR (Input)	1930~1990 MHz	-	1.7	2.2	-	
VSWR (Output)	1930~1990 MHz	-	1.5	2.2	-	
Amplitude Balance S21 / S31	1930~1990 MHz	-1.4	-0.6/+0.8	+1.4	dB	
Phase Balance ($\phi S_{21}-\phi S_{31}$)-180	1930~1990 MHz	-11	-2/+5	+10	deg.	
Input Impedance	Unbalanced	50			Ohm	
Output Impedance	Balance	150//15nH			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

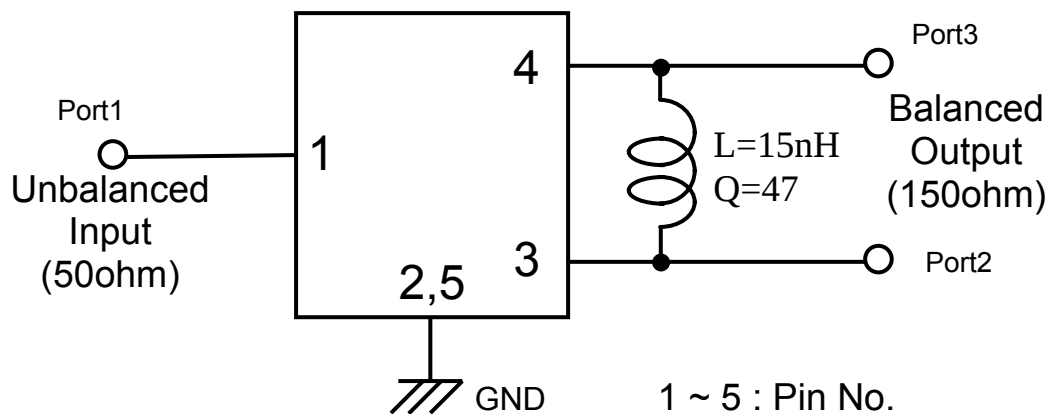


Unit: mm

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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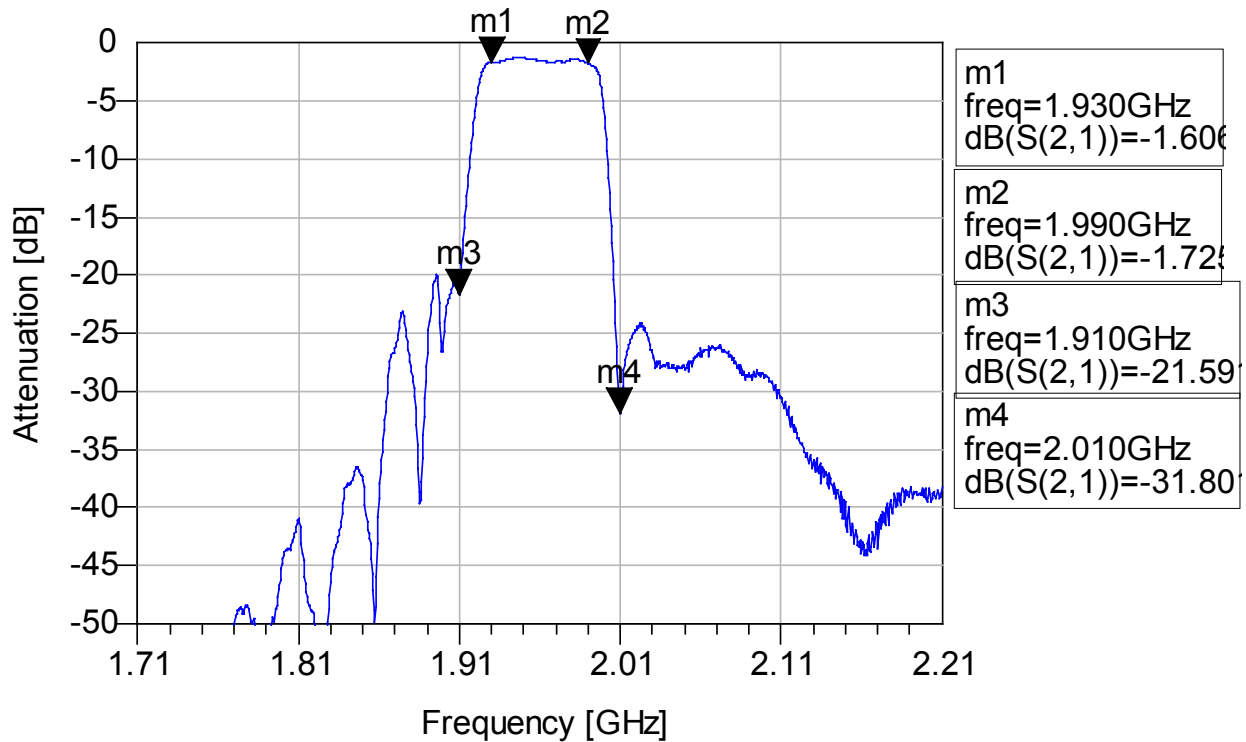


Fig.1-1 Pass-band Characteristics

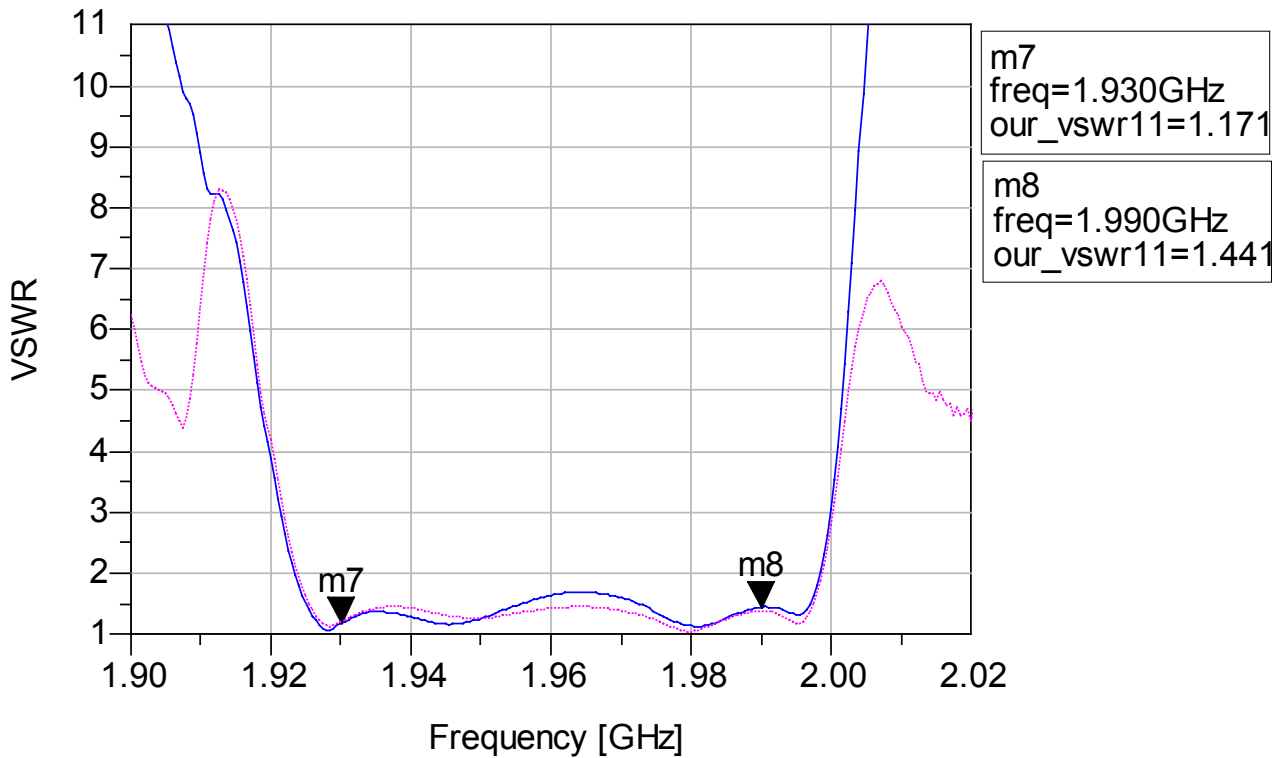


Fig.1-2 VSWR

— Input (Unbal.)
- - - Output (Bal.)

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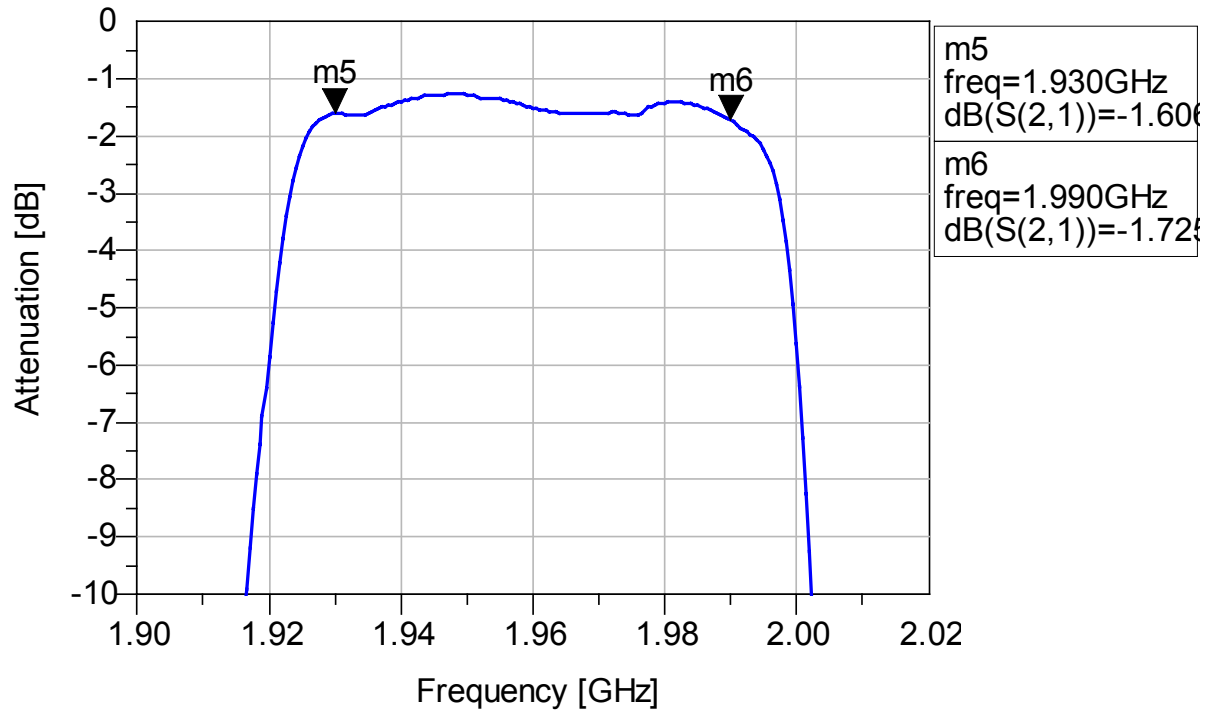


Fig.1-3 In-band Characteristics

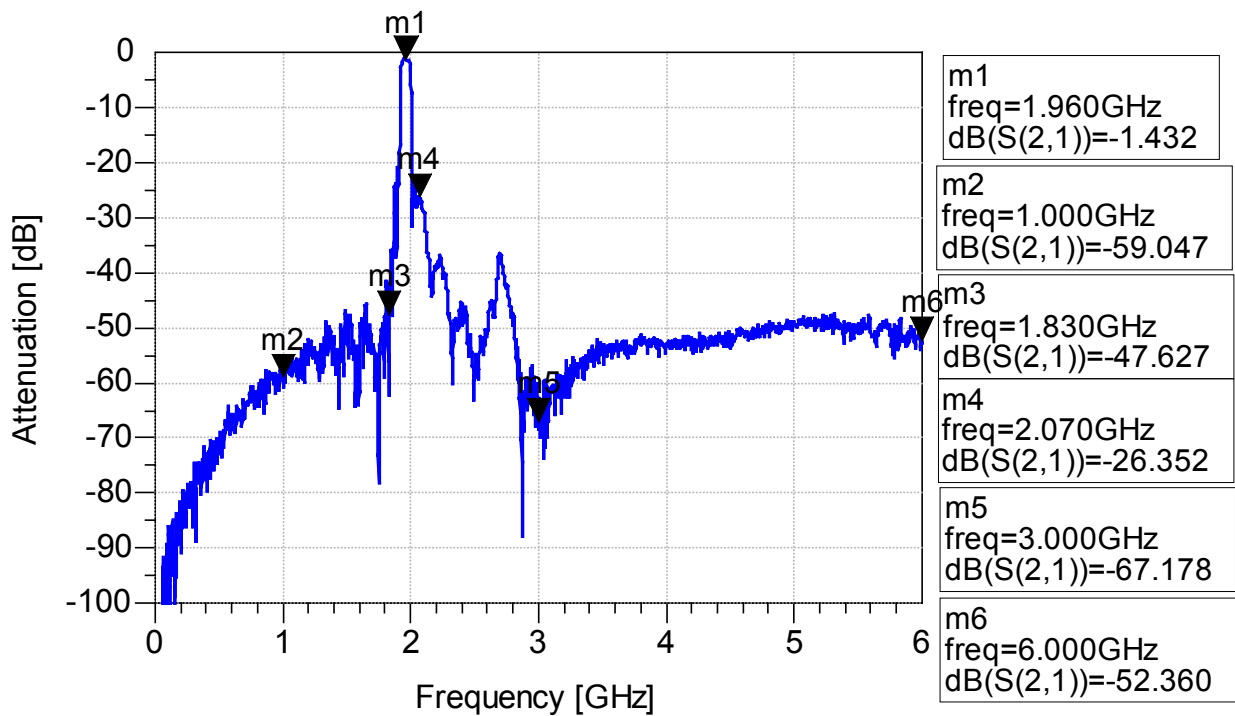


Fig.1-4 Wide-band Characteristics

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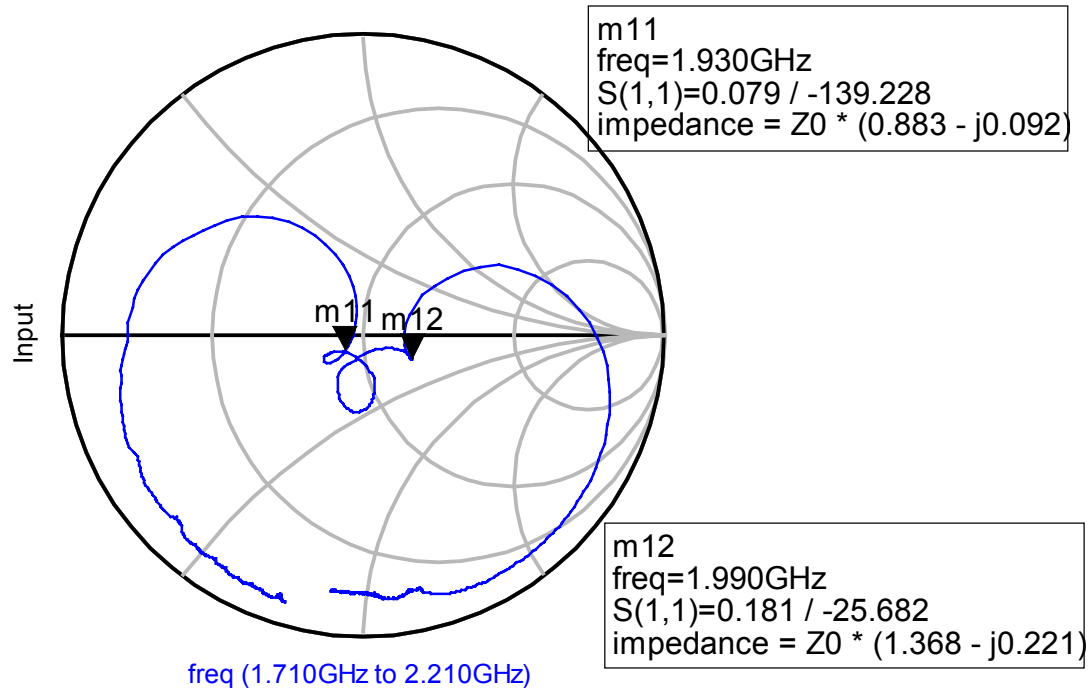


Fig.1-5 Input Impedance (Unbalance)

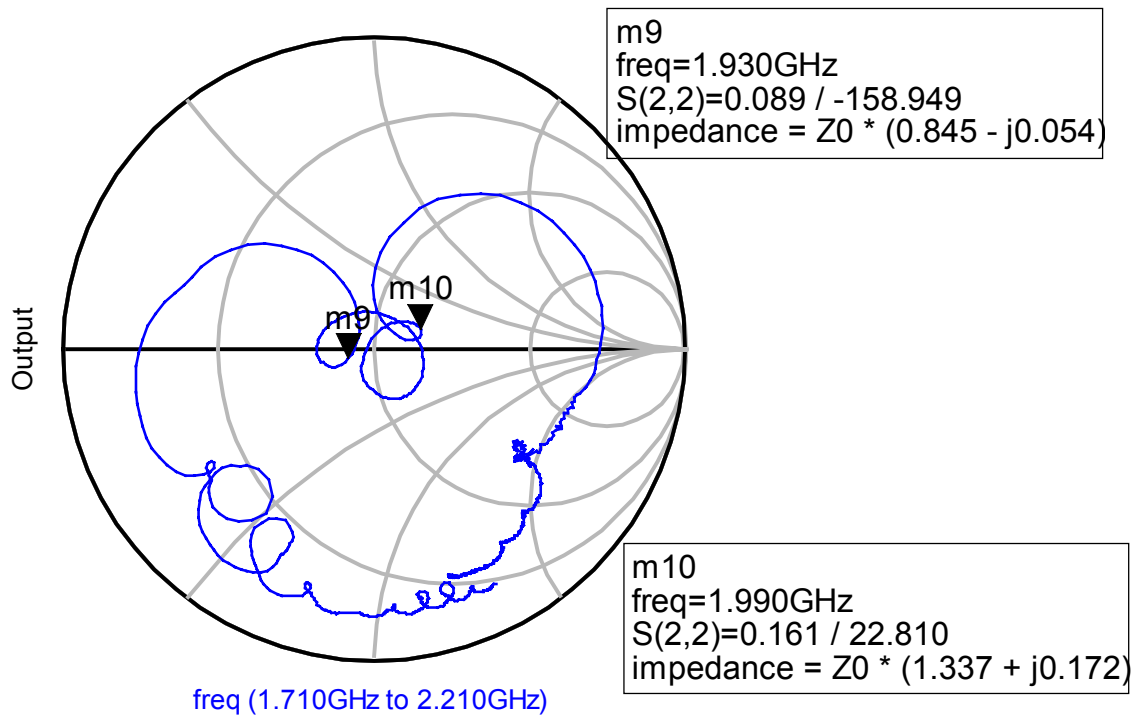
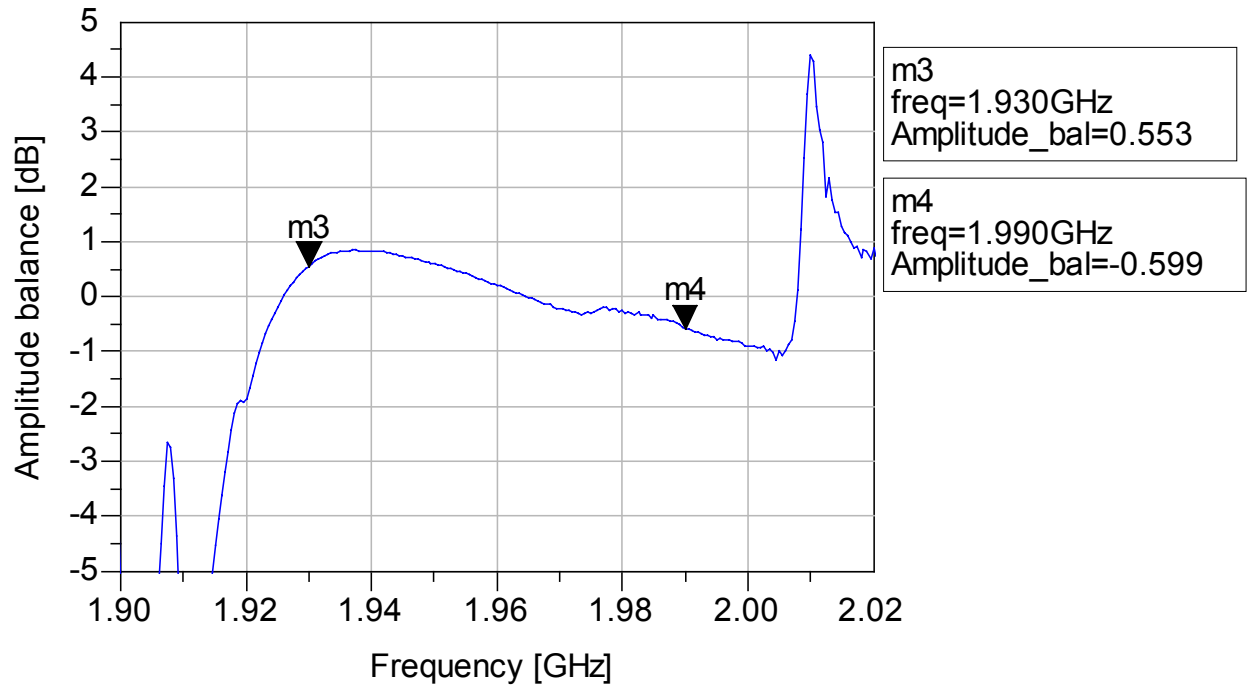
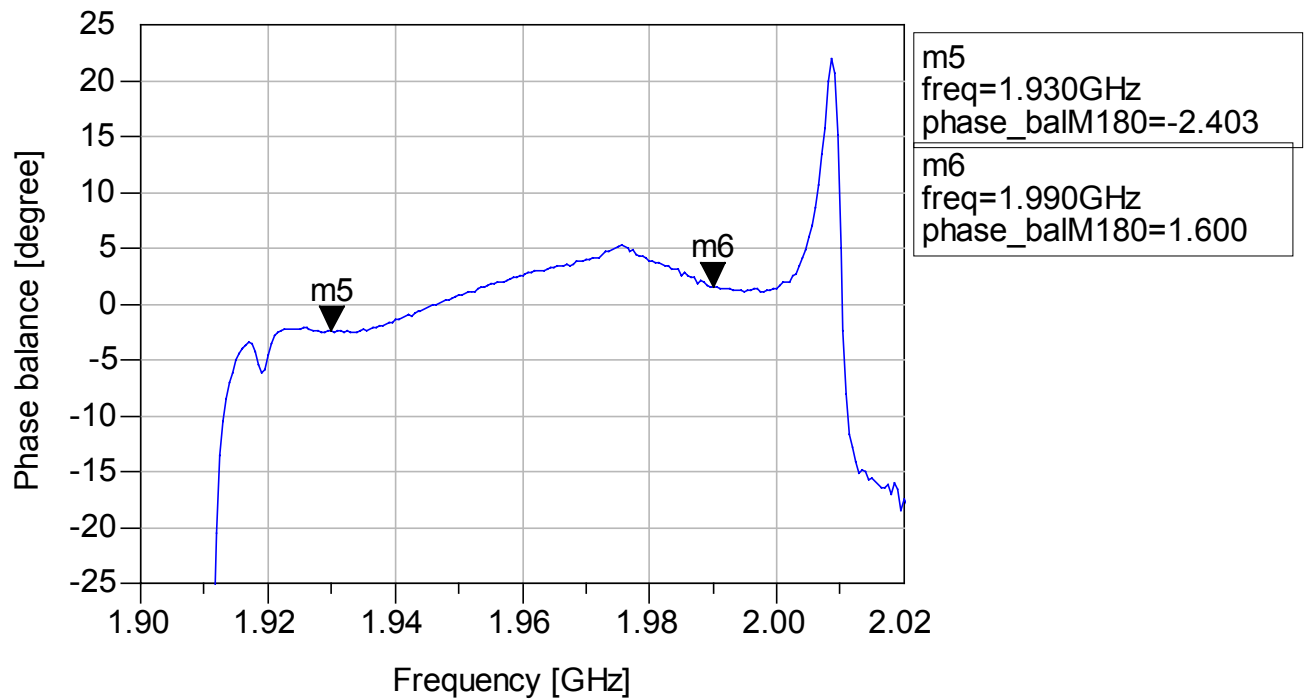


Fig.1-6 Output Impedance (Balance)

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**Fig.1-7 Amplitude Balance****Fig.1-8 Phase Balance**