

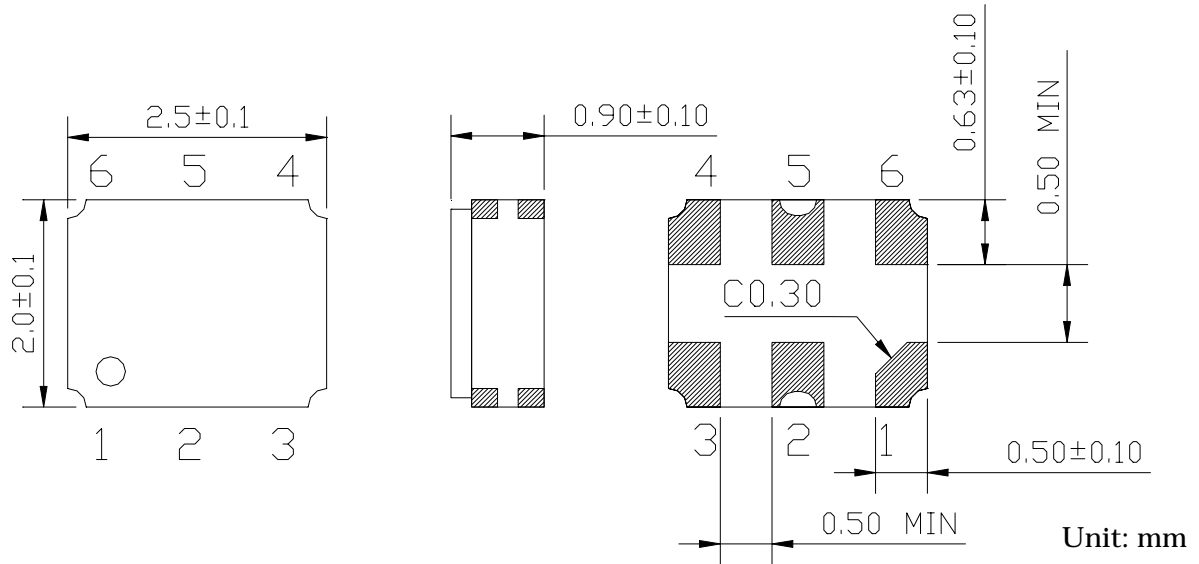
Customer Name	<b>Standard Specification</b>	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx (50/150)	DATE	Jan. 30, 2004
FMD Part Number	FAR-F5CQ-942M50-B25CL	Version 3.1	

**Table 1. Electrical specifications**

Passband: 925 ~ 960 MHz						
Item	Condition	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion loss	925 -960 MHz	-	2.1	2.8	dB	at +25°C
		-	-	3.0	dB	-20 to +70 °C
		-	-	3.3	dB	
Ripple	925 -960 MHz	-	0.8	1.8	dB	
Absolute attenuation	0.1 -880 MHz	40	51	-	dB	
	880-905 MHz	30	48	-	dB	
	905-915 MHz	18	31	-	dB	
	980-1025 MHz	23	32	-	dB	
	1025-2000 MHz	40	45	-	dB	
	2000-3000 MHz	33	40	-	dB	
	3000-6000 MHz	21	34	-	dB	
Input VSWR	925 -960 MHz	-	1.6	2.1	-	
Output VSWR	925 -960 MHz	-	1.7	2.1	-	
Amplitude balance  S21 / S31	925 -960 MHz	-1.0	-0.4/+0.5	+1.0	dB	
Phase balance ( $\Phi$ S21- $\Phi$ S31)+180	925 -960 MHz	-10	-0.1/+6.0	+10	deg.	
Input impedance	Unbalance	50			ohm	
Output impedance	Balance	150 // 82nH			ohm	
Input power	880 -915 MHz	-	-	+13	dBm	1/4 duty
Operating temperature		-30 to +85			°C	
Device size		2.5typ.x 2.0typ.x 1.0max.			mm	

Customer Name	<b>Standard Specification</b>	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx (50/150)	DATE	Jan. 30, 2004
FMD Part Number	FAR-F5CQ-942M50-B25CL	Version 3.1	

● **Dimensions**

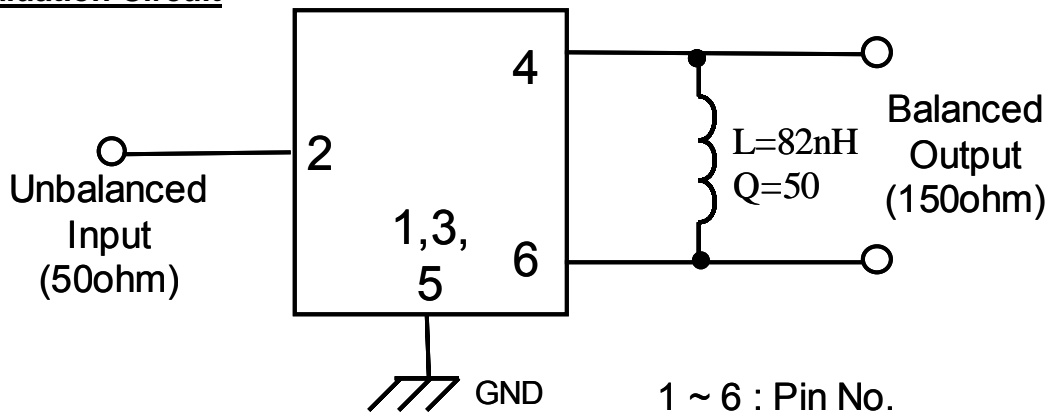


Devices dimensions

● **Pin Configuration**

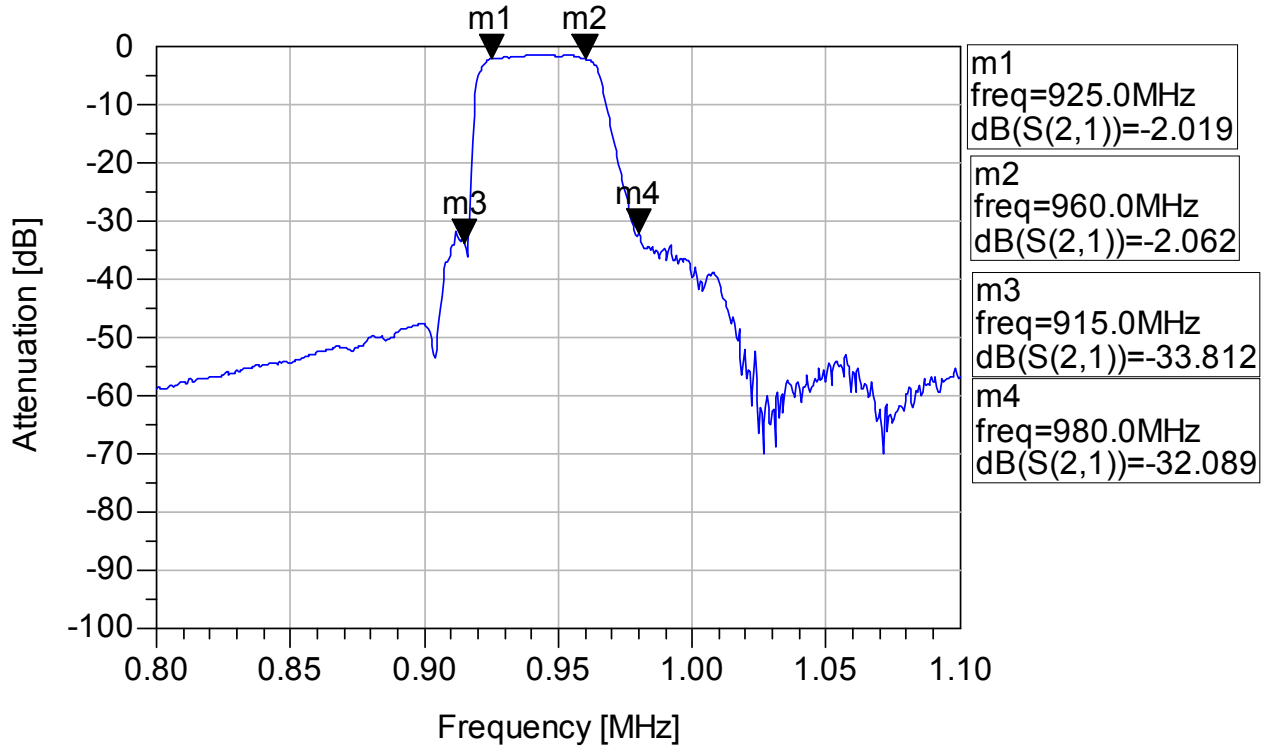
Pin No.	Symbol	Function
1	GND	Ground
2	IN	Unbalanced pin
3	GND	Ground
4	OUT	Balanced pin
5	GND	Ground
6	OUT	Balanced pin

● **Evaluation Circuit**

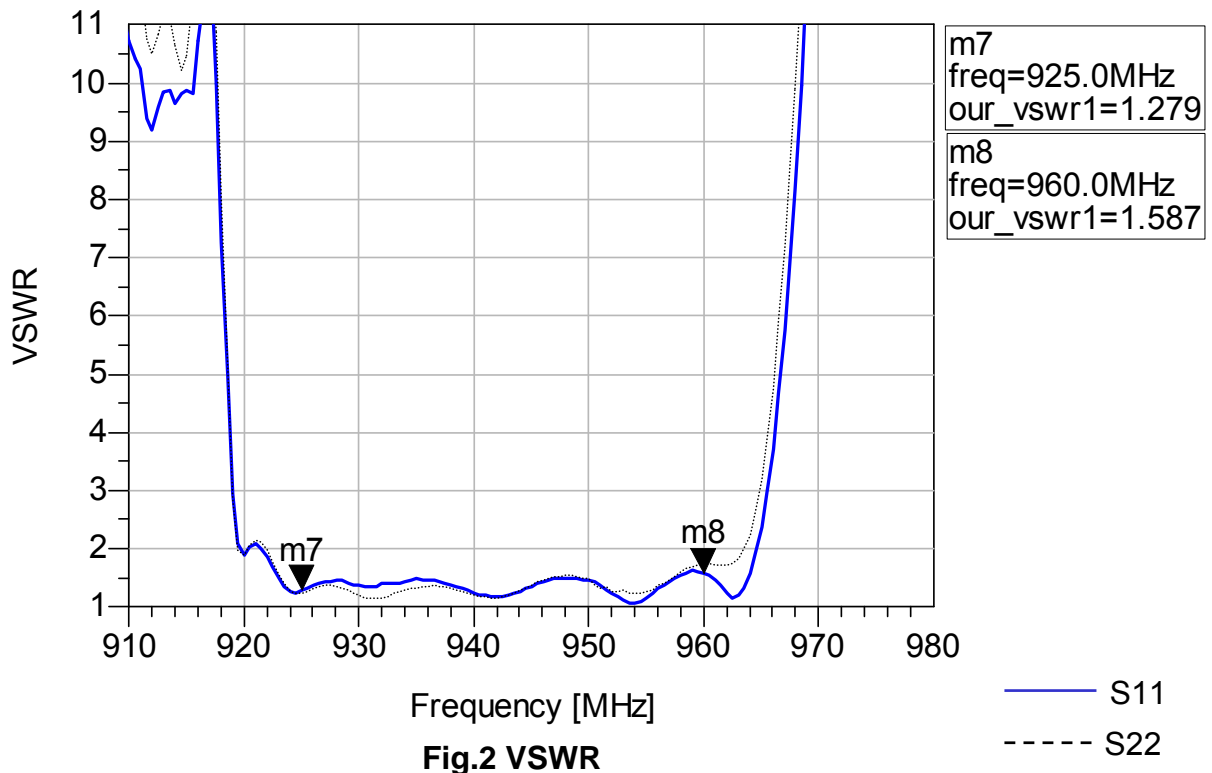


Evaluation circuit

Customer Name	<b>Standard Specification</b>	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx (50/150)	DATE	Jan. 30, 2004
FMD Part Number	FAR-F5CQ-942M50-B25CL	Version 3.1	

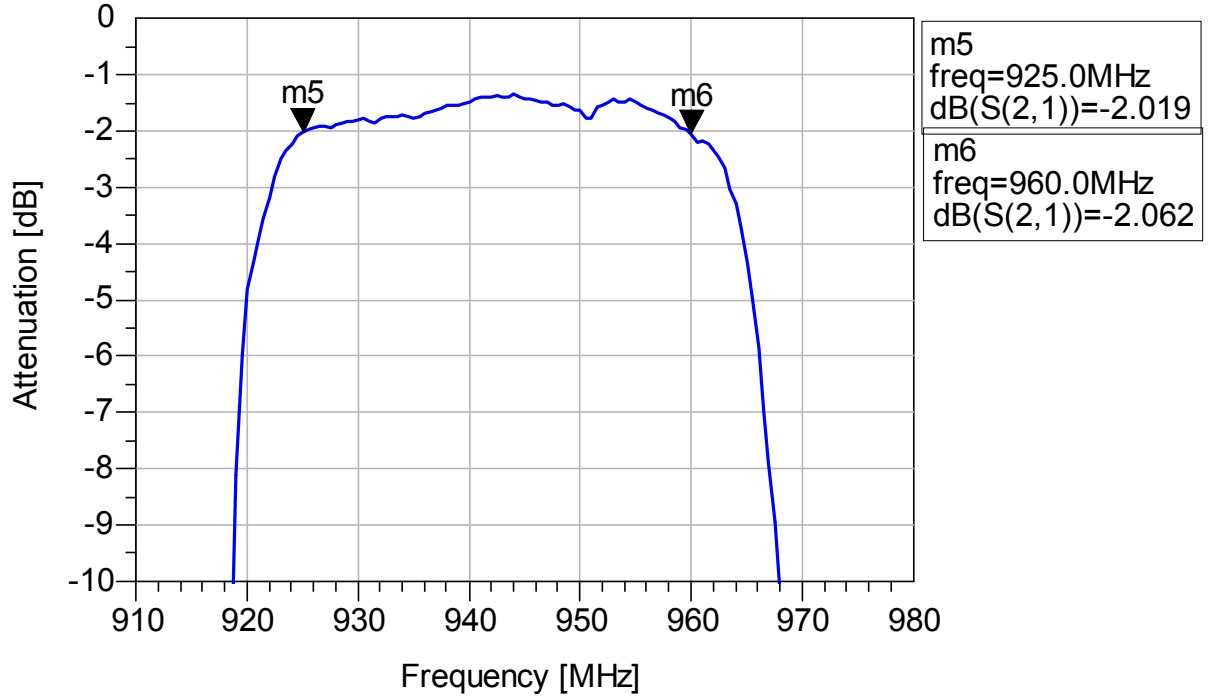


**Fig.1 Pass-band Characteristics**

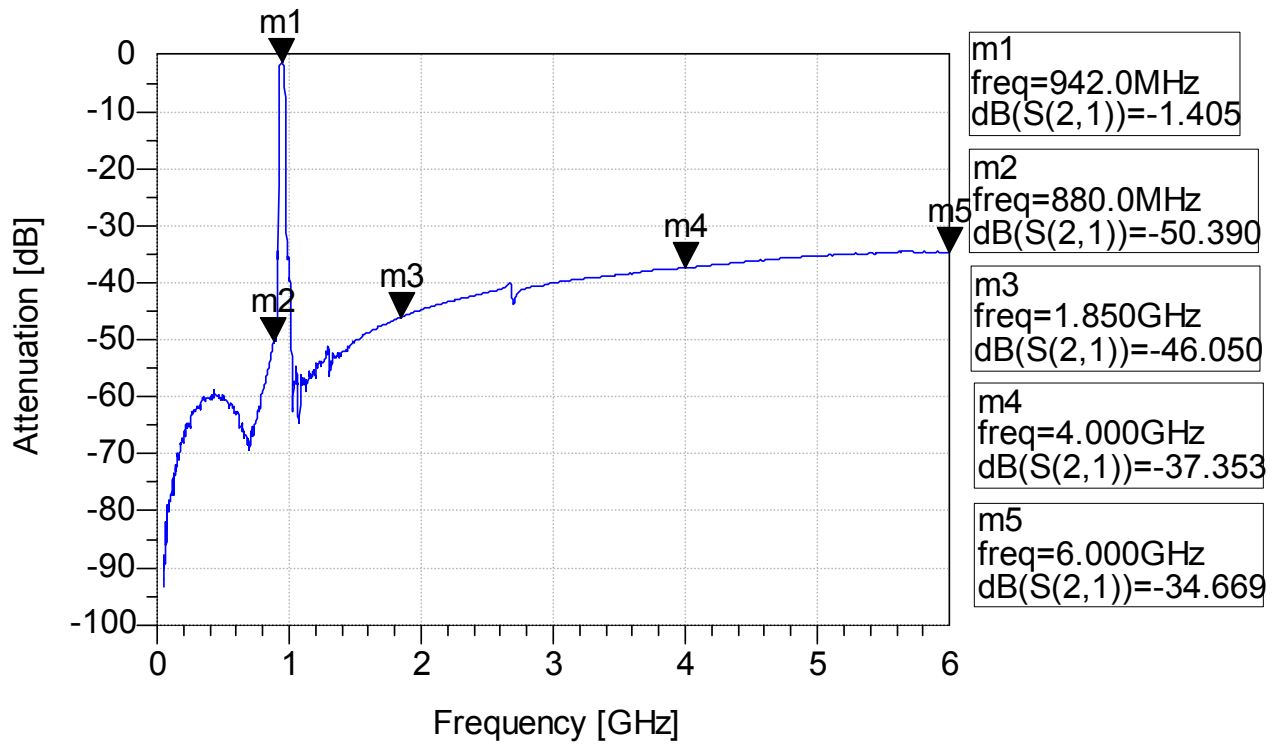


**Fig.2 VSWR**

Customer Name	<b>Standard Specification</b>	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx (50/150)	DATE	Jan. 30, 2004
FMD Part Number	FAR-F5CQ-942M50-B25CL	Version 3.1	

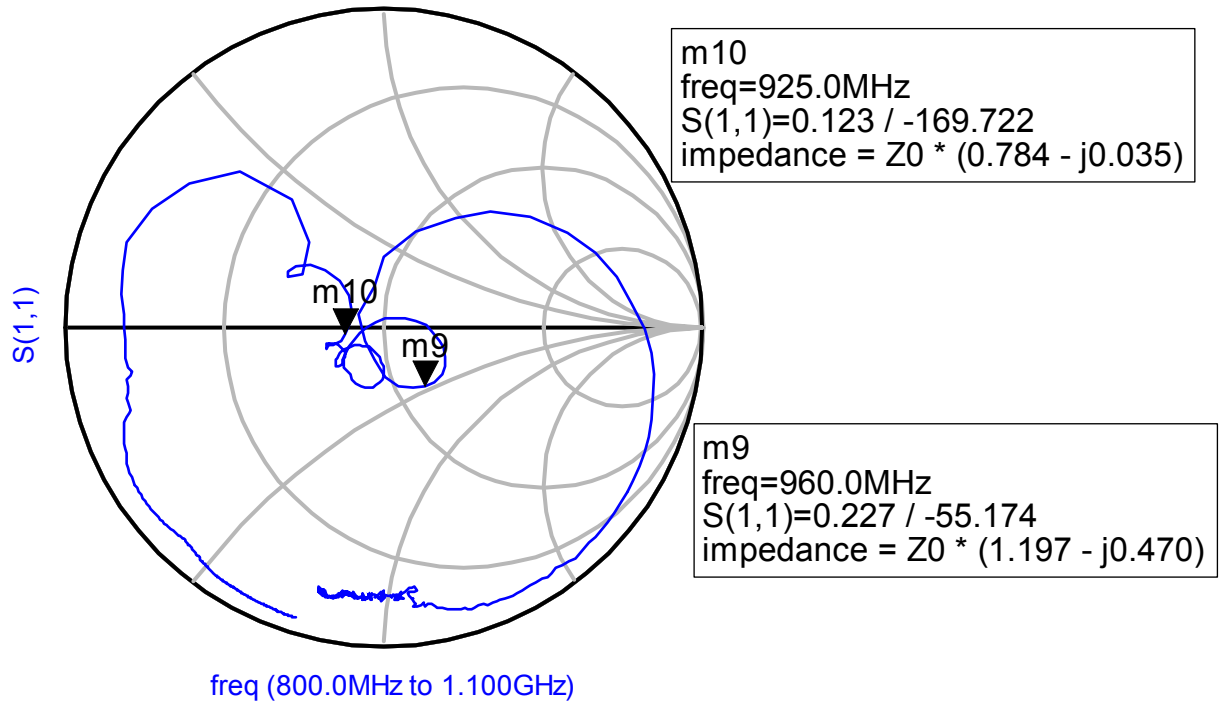


**Fig.3 In-band Characteristics**

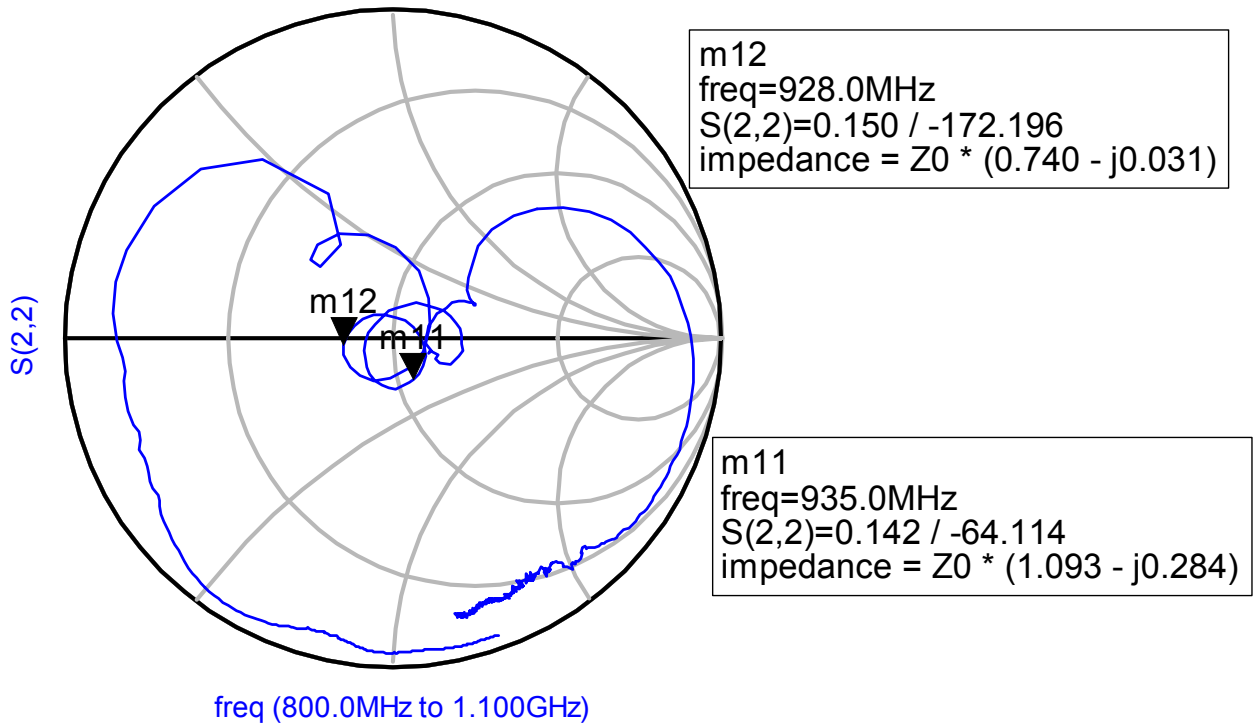


**Fig.4 Wide-band Characteristics**

Customer Name	<b>Standard Specification</b>	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx (50/150)	DATE	Jan. 30, 2004
FMD Part Number	FAR-F5CQ-942M50-B25CL	Version 3.1	

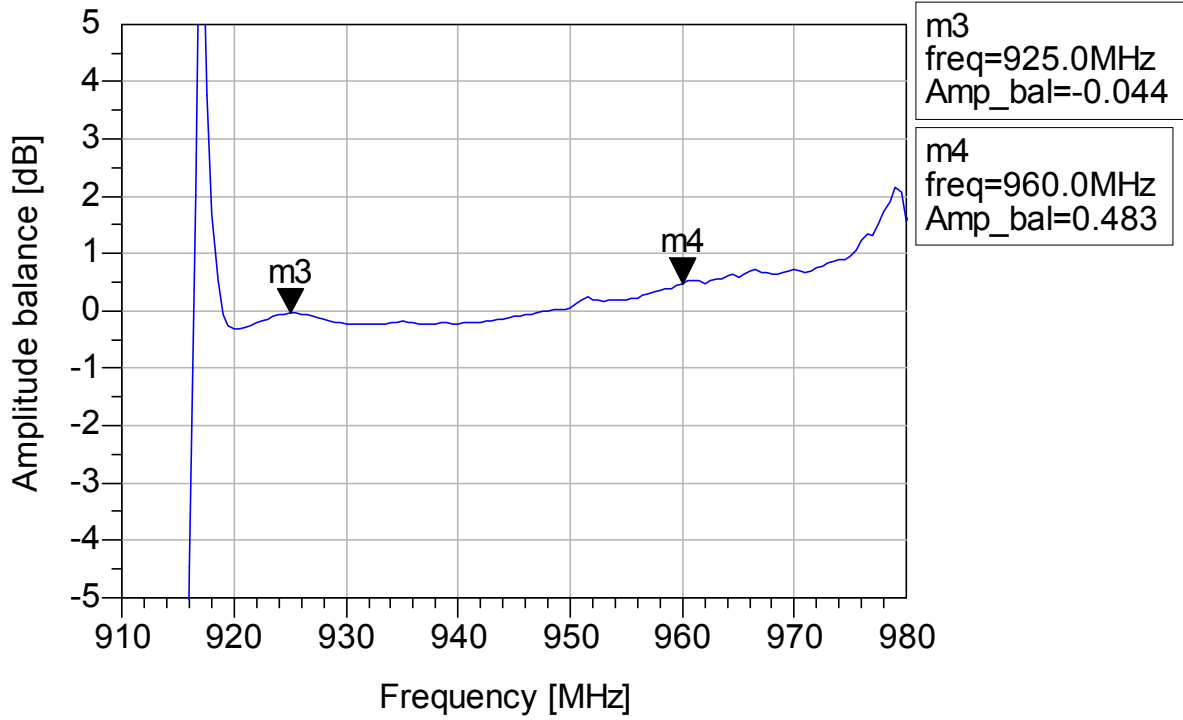


**Fig.5 Input Impedance (Unbalance)**

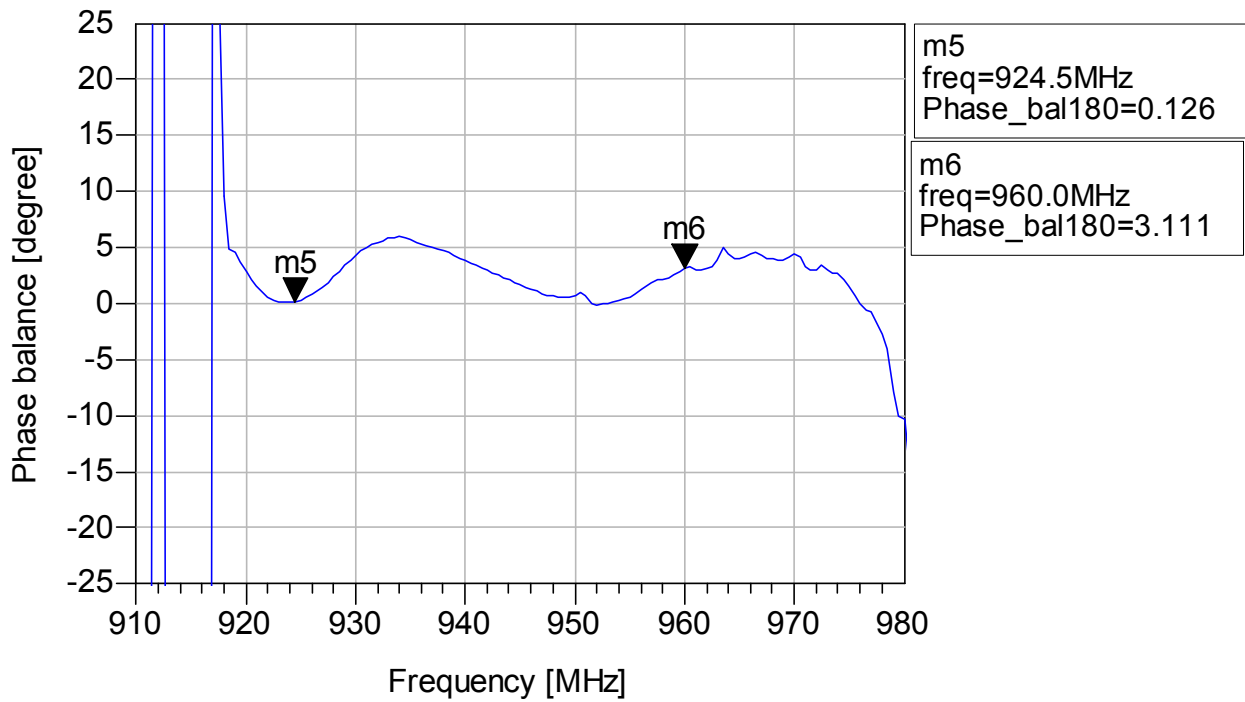


**Fig.6 Output Impedance (Balance)**

Customer Name	<b>Standard Specification</b>	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx (50/150)	DATE	Jan. 30, 2004
FMD Part Number	FAR-F5CQ-942M50-B25CL	Version 3.1	



**Fig.7 Amplitude balance**



**Fig.8 Phase balance**