

Customer Name	<b>Standard Specification</b>	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx(50/150ohm)	DATE	June 12, 2003
FMD Part Number	FAR-F5EB-942M50-B28C	Version 5.4d	

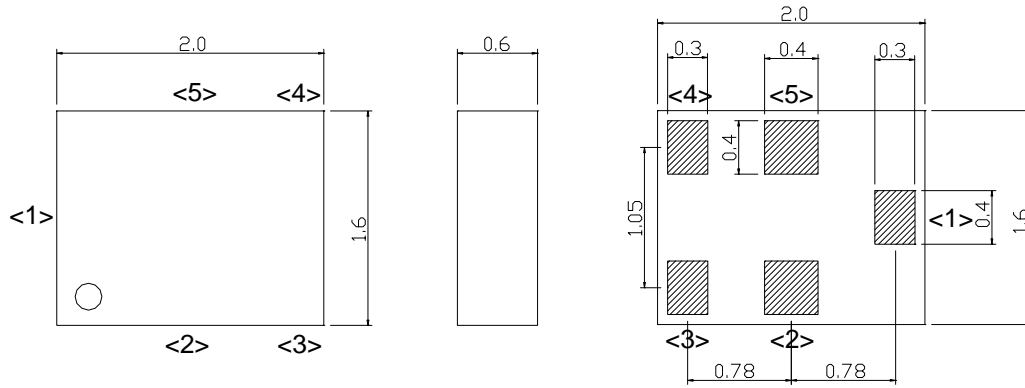
**Table 1 Electrical Specification**

Passband : 925 ~ 960 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	925 ~ 960	-	2.0	2.7	dB	
Ripple	925 ~ 960	-	0.7	1.7	dB	
Absolute attenuation	DC ~ 880	50	60	-	dB	
	880 ~ 905	30	45	-	dB	
	905 ~ 915	17	32	-	dB	
	980 ~ 1025	26	32	-	dB	
	1025 ~ 2880	40	53	-	dB	
	2880 ~ 6000	35	45	-	dB	
VSWR	925 ~ 960	-	1.7	2.1	-	
Output Amplitude Balance	925 ~ 960	-1.0	+0.1/	+1.0	dB	
		-0.5	-0.2	+0.5	dB	Ta=25 °C
Output Phase Balance	925 ~ 960	-10	+0/	+10	deg	
		-5	-2	+5	deg	Ta=25 °C
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	150//82nH			ohm	
Input Power	925 ~ 960			+15	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		2.0typ. x 1.6typ. x 0.6max.			mm	

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**Dimensions**

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



Unit :mm

Fig.1

**Pin Configuration**

Table 2

Pin No.	Pin name	Description
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced pin
4	OUT	Balanced pin
5	GND	Ground

**Evaluation Circuit**

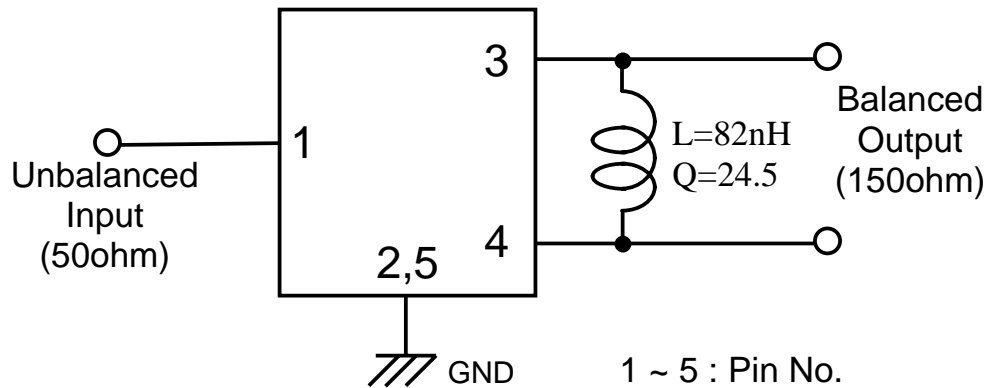
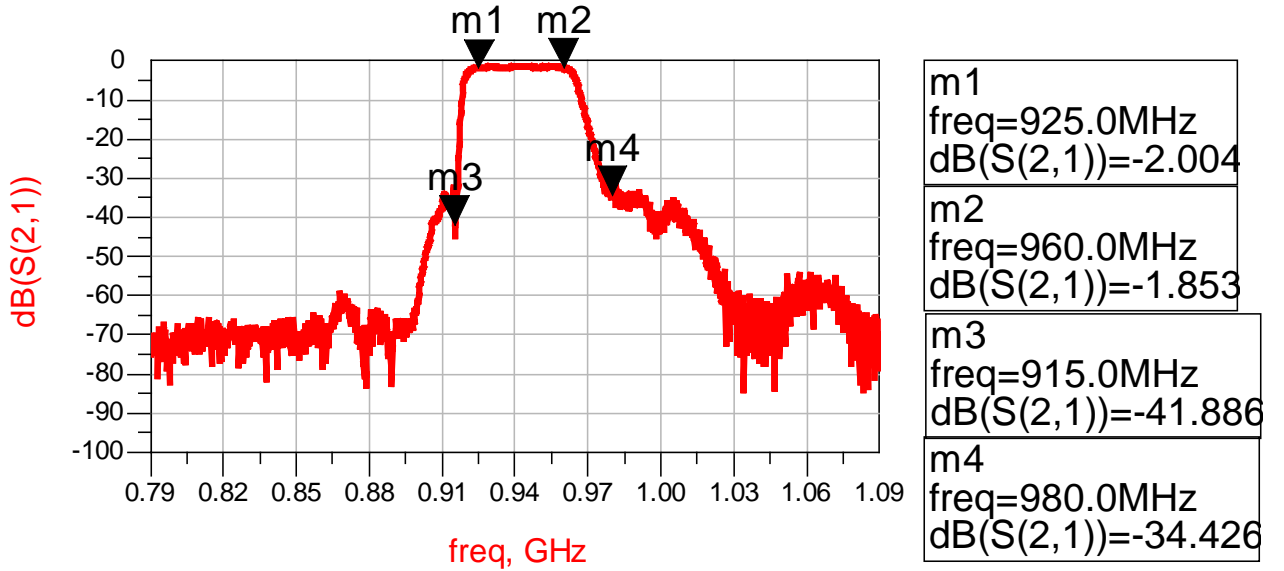
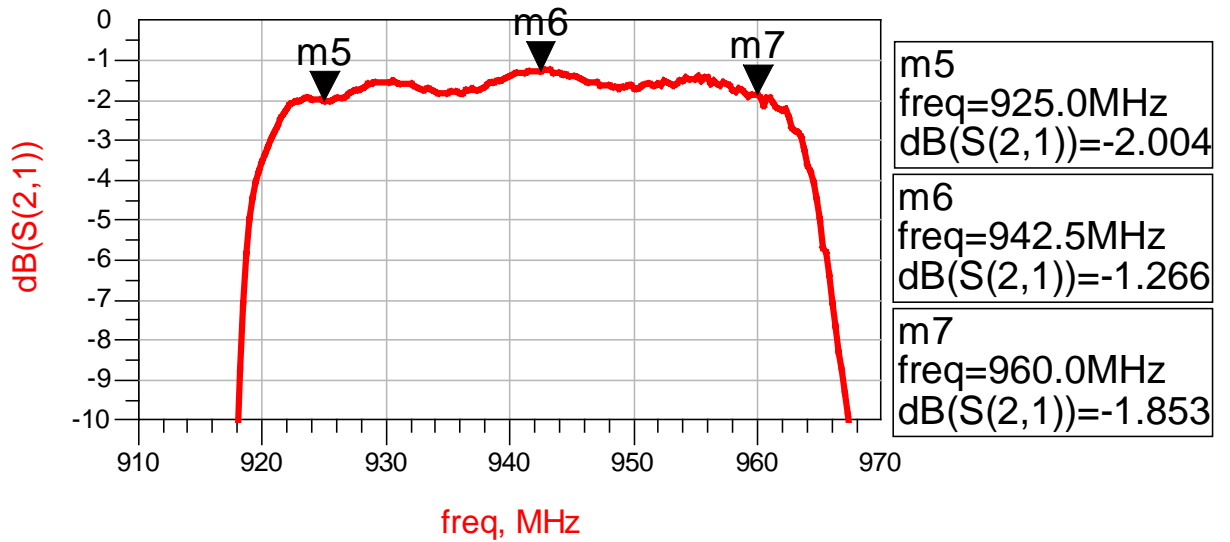


Fig.2 Evaluation circuit

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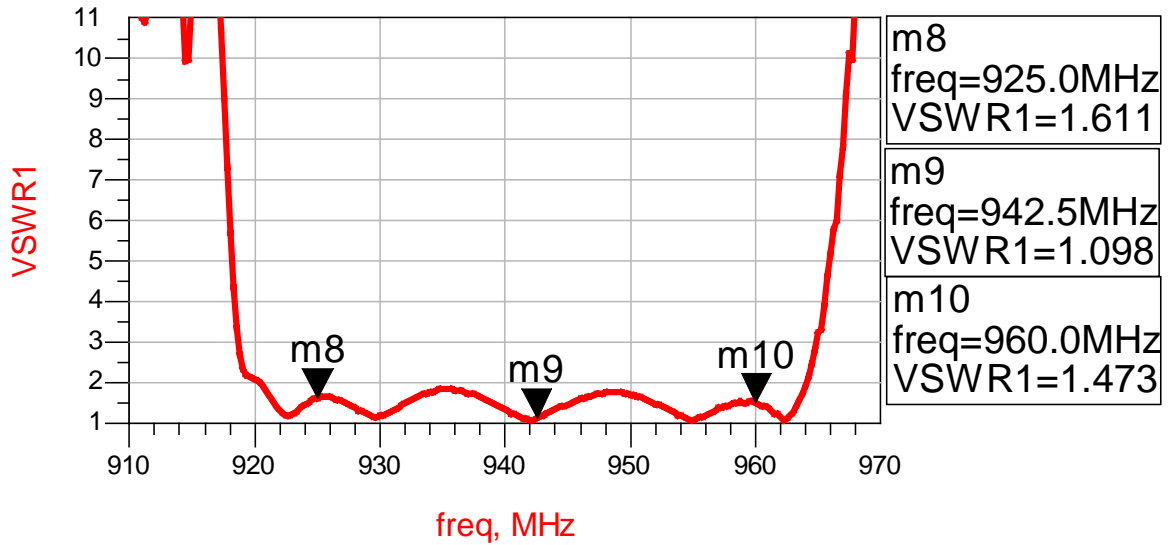


**Fig.3 Pass-band Characteristics**

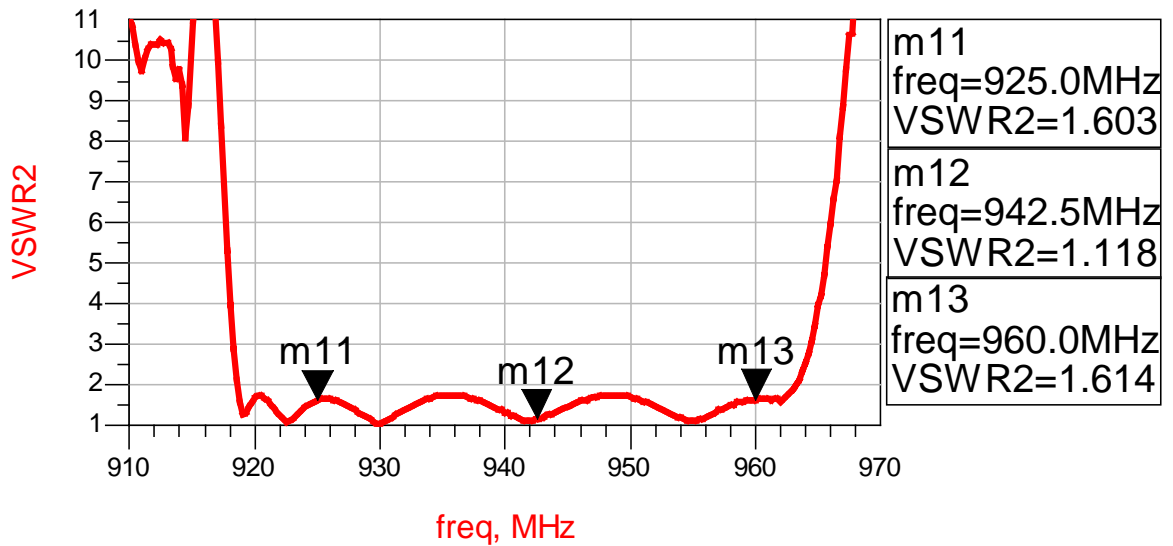


**Fig.4 In-band Characteristics**

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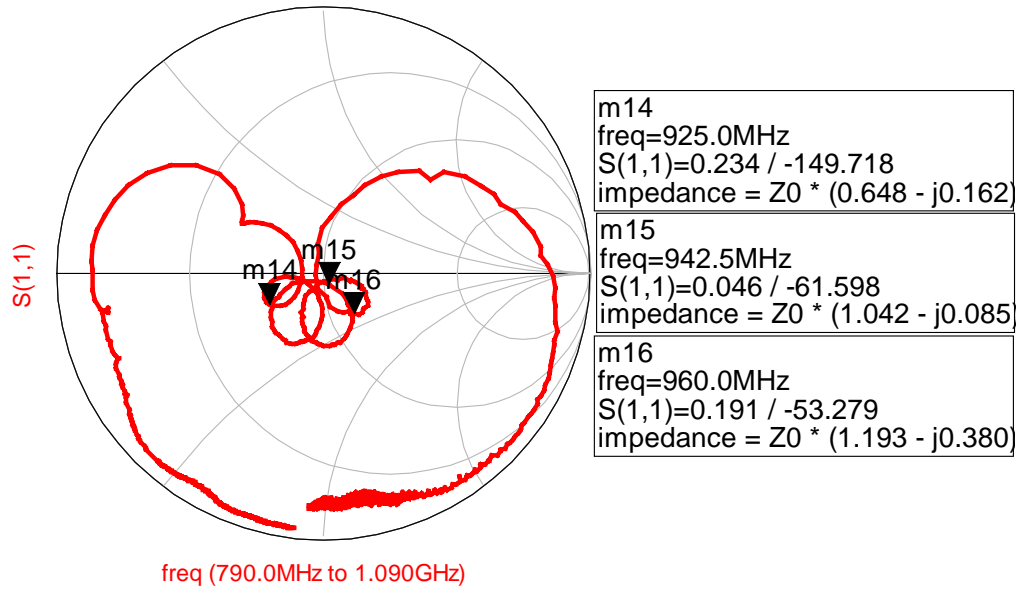


**Fig.5 VSWR(Unalanced)**

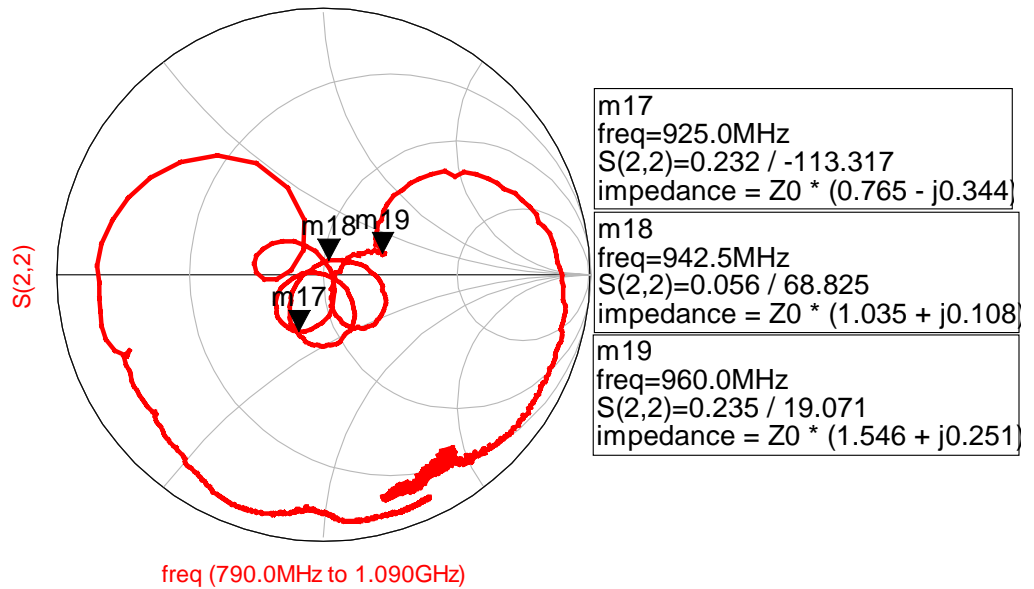


**Fig.6 VSWR(Balanced)**

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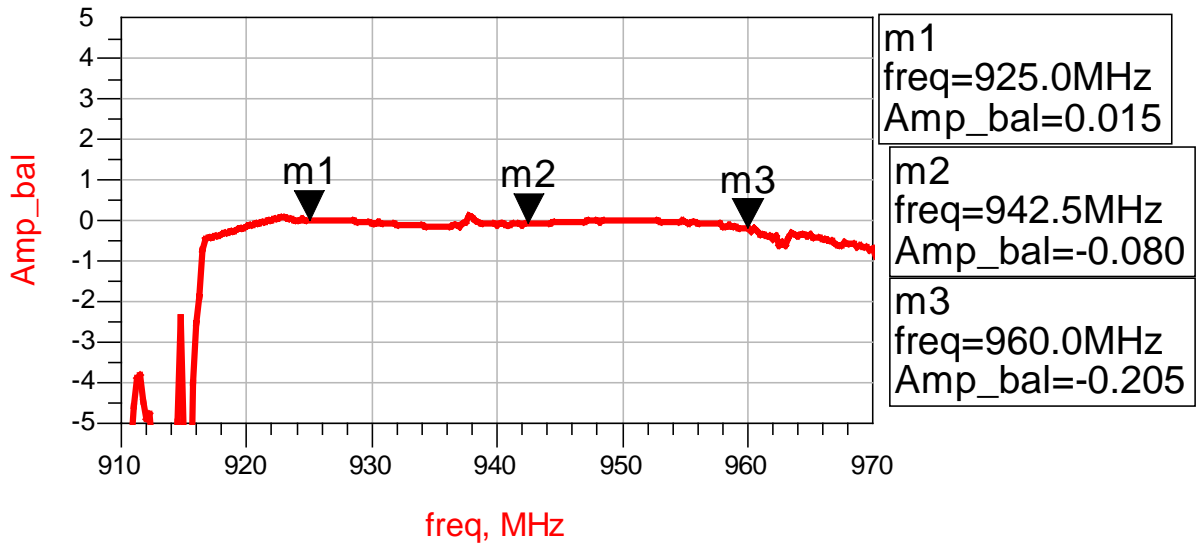


**Fig.7 Impedance S11(Unbalanced)**

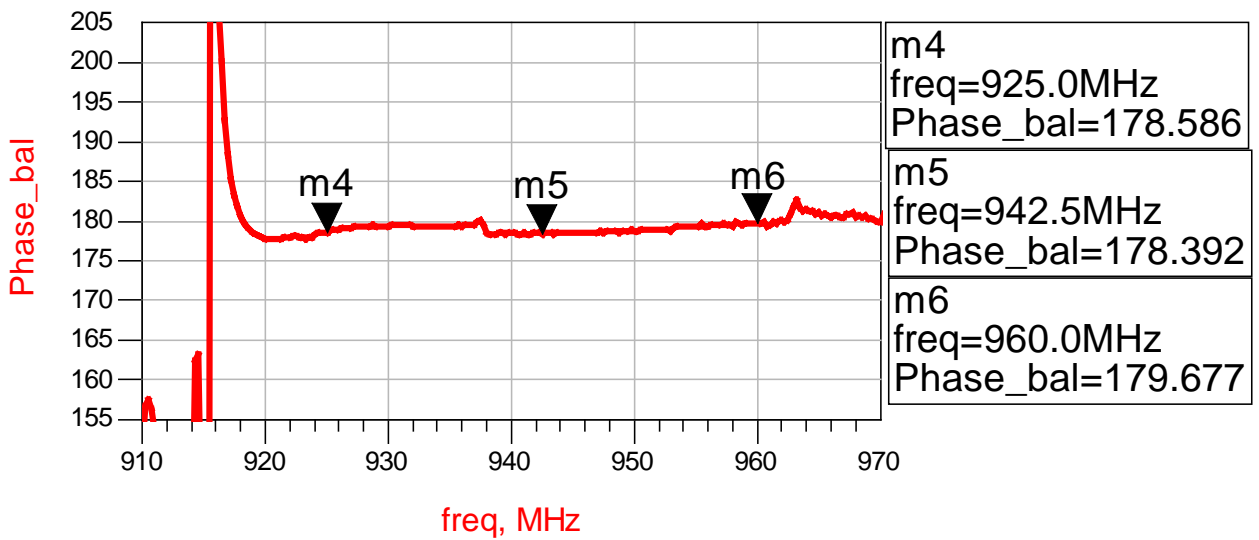


**Fig.8 Impedance S22(Balanced)**

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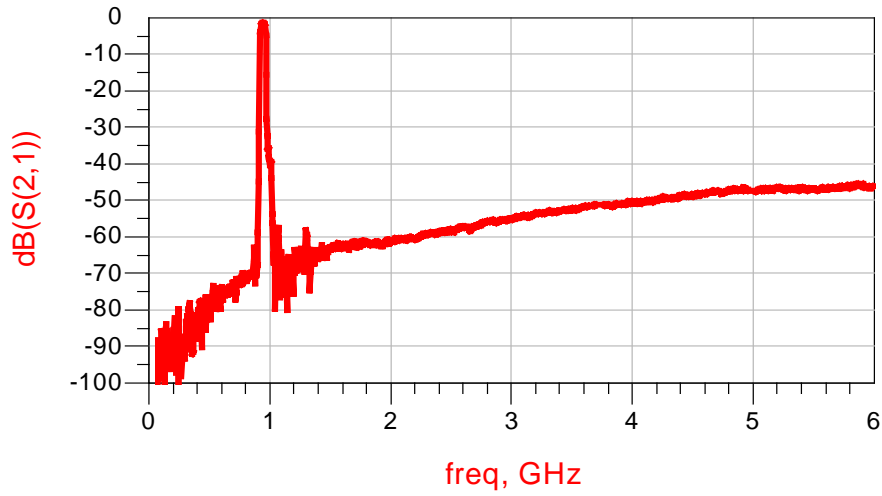


**Fig.9 Amplitude Balance**



**Fig.10 Phase Balance**

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**Fig.11 Wide-band Characteristics**