

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx(50/50ohm)	DATE	Jan. 13, 2004
FMD Part Number	FAR-F5EB-942M50-B28A	Version 2.1b	

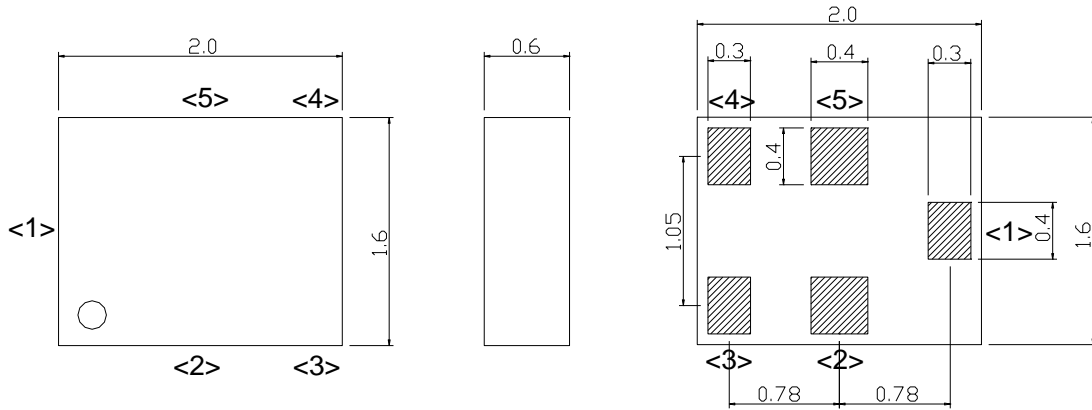
Electrical Specification

Passband : 925 ~ 960 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	925 ~ 960	-	2.2	3.0	dB	
Ripple	925 ~ 960	-	0.8	1.7	dB	
Absolute attenuation	DC ~ 880	40	49	-	dB	
	880 ~ 905	30	43	-	dB	
	905 ~ 915	20	29	-	dB	
	980 ~ 1025	20	30	-	dB	
	1025 ~ 2880	25	37	-	dB	
	2880 ~ 6000	10	22	-	dB	
VSWR(Input)	925 ~ 960	-	1.7	2.2	-	
VSWR(Output)	925 ~ 960	-	1.7	2.2	-	
Amplitude Balance (S ₂₁ /S ₃₁)	925 ~ 960	-1.0	-0.4/+0.2	+1.0	dB	
Phase Balance (∠S ₂₁ -∠S ₃₁ +180)	925 ~ 960	-10	-2/+3	+10	deg	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	50			ohm	
Input Power	925 ~ 960			+15	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		2.0typ. x 1.6typ. x 0.6max.			mm	

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx(50/50ohm)	DATE	Jan. 13, 2004
FMD Part Number	FAR-F5EB-942M50-B28A	Version 2.1b	

Dimensions

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

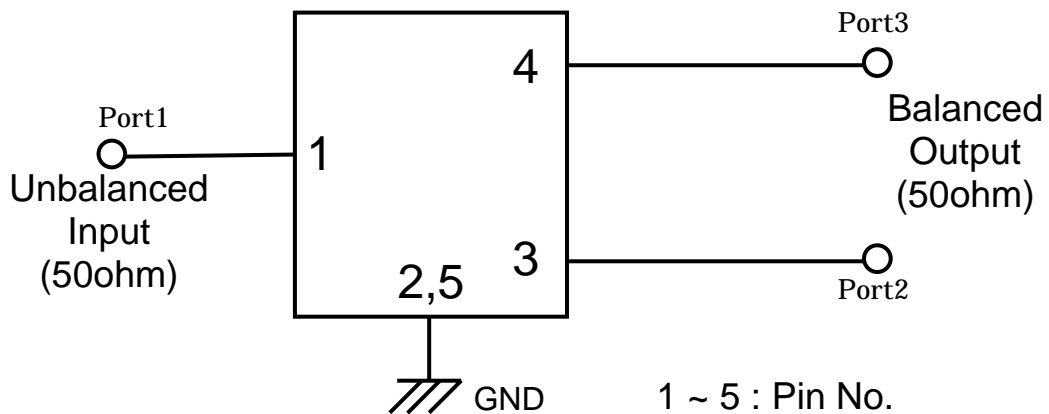


Unit :mm

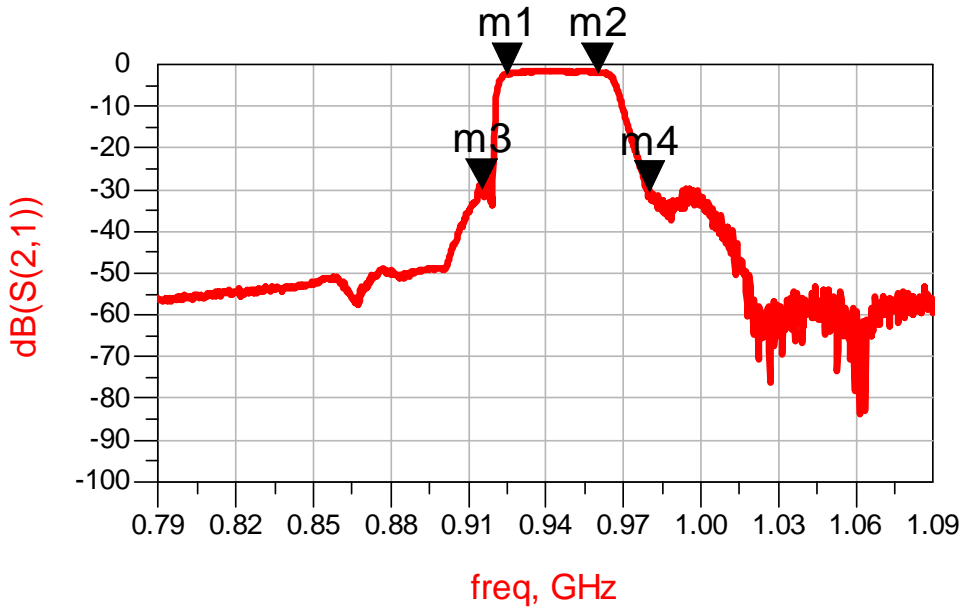
Pin Configuration

Pin No.	Pin name	Description
1	IN	Unbalanced pin(Port1)
2	GND	Ground
3	OUT	Balanced pin(Port2)
4	OUT	Balanced pin(Port3)
5	GND	Ground

Evaluation Circuit

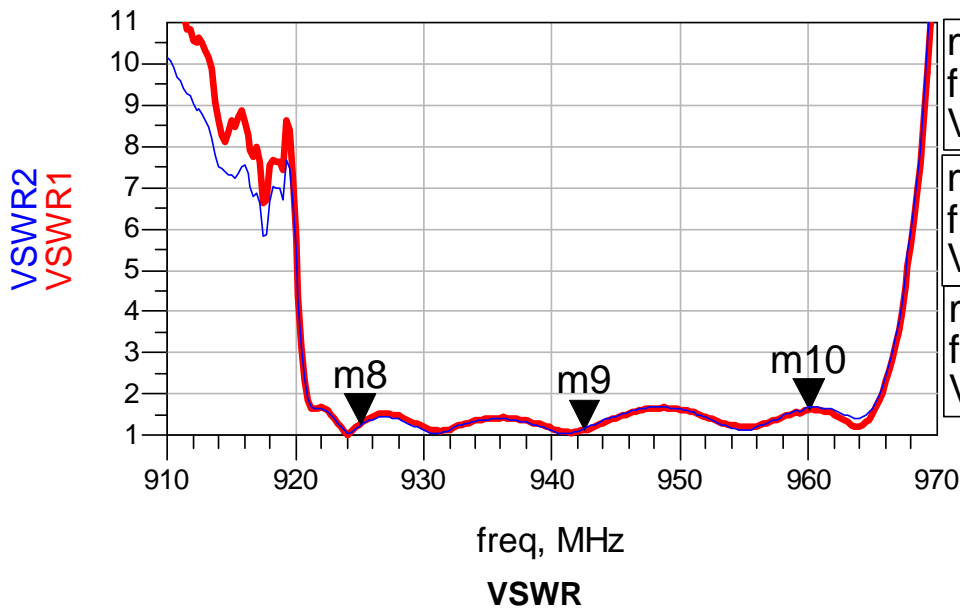


Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx(50/50ohm)	DATE	Jan. 13, 2004
FMD Part Number	FAR-F5EB-942M50-B28A	Version 2.1b	



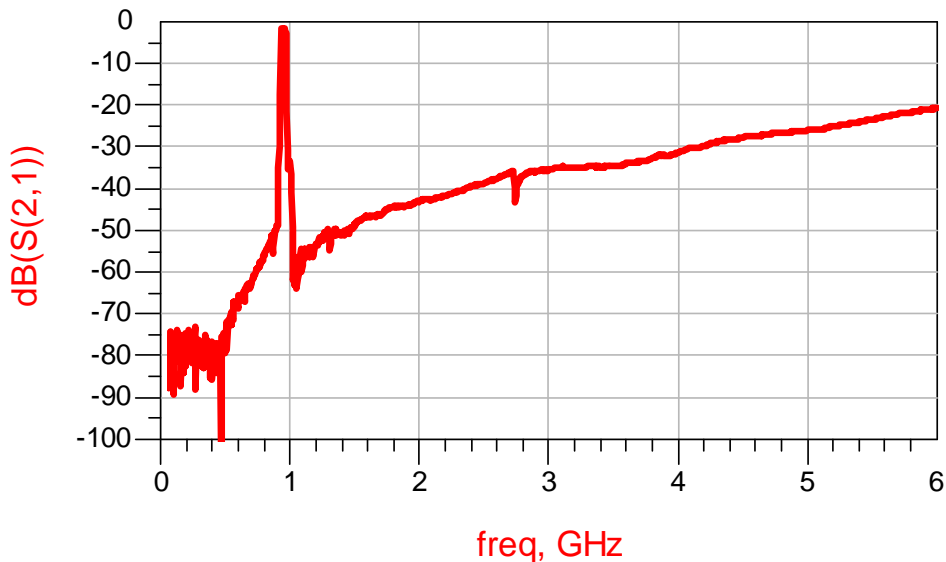
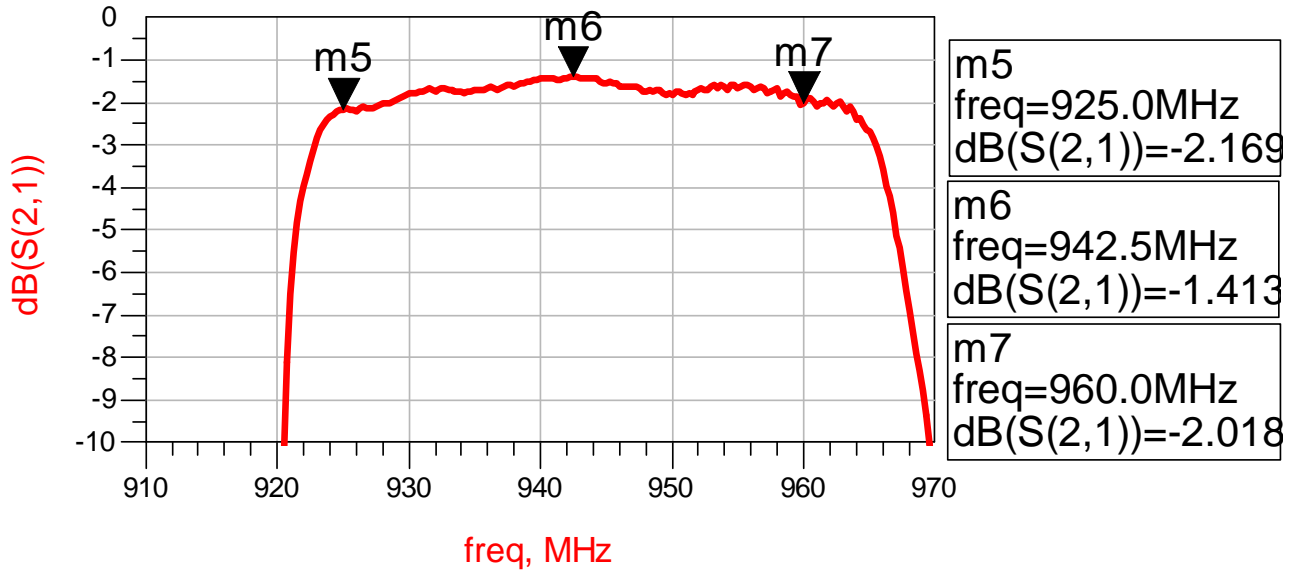
m1	freq=925.0MHz dB(S(2,1))=-2.169
m2	freq=960.0MHz dB(S(2,1))=-2.018
m3	freq=915.0MHz dB(S(2,1))=-29.890
m4	freq=980.0MHz dB(S(2,1))=-30.576

Pass-band Characteristics

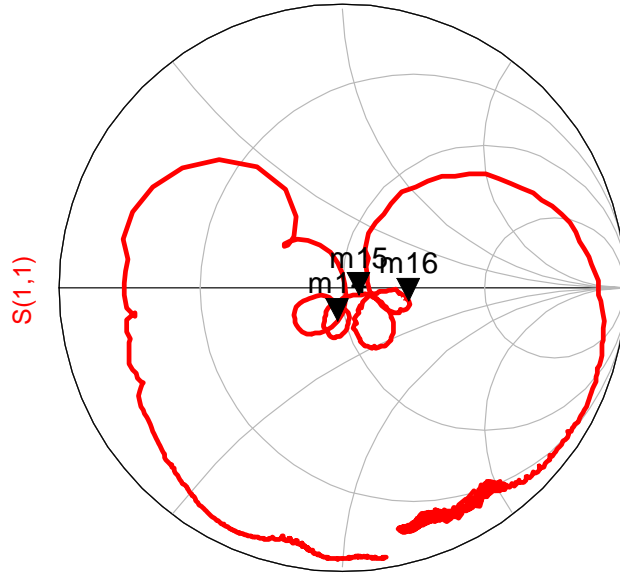


m8	freq=925.0MHz VSWR1=1.270
m9	freq=942.5MHz VSWR1=1.135
m10	freq=960.0MHz VSWR1=1.625

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx(50/50ohm)	DATE	Jan. 13, 2004
FMD Part Number	FAR-F5EB-942M50-B28A	Version 2.1b	



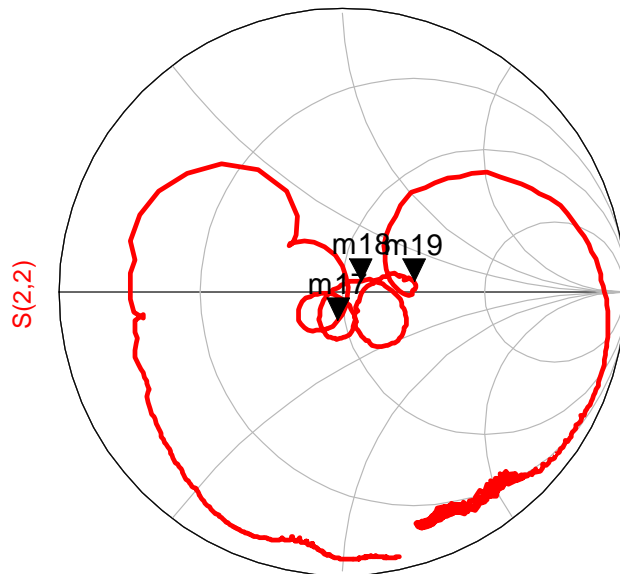
Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx(50/50ohm)	DATE	Jan. 13, 2004
FMD Part Number	FAR-F5EB-942M50-B28A	Version 2.1b	



m14	freq=925.0MHz	S(1,1)=0.119 / -99.160	impedance = Z0 * (0.937 - j0.223)
m15	freq=942.5MHz	S(1,1)=0.063 / -25.904	impedance = Z0 * (1.118 - j0.062)
m16	freq=960.0MHz	S(1,1)=0.238 / -11.302	impedance = Z0 * (1.599 - j0.158)

freq (790.0MHz to 1.090GHz)

Impedance S11(Unbalanced)



m17	freq=925.0MHz	S(2,2)=0.104 / -99.236	impedance = Z0 * (0.948 - j0.196)
m18	freq=942.5MHz	S(2,2)=0.076 / 30.498	impedance = Z0 * (1.136 + j0.088)
m19	freq=960.0MHz	S(2,2)=0.255 / 7.910	impedance = Z0 * (1.670 + j0.125)

freq (790.0MHz to 1.090GHz)

Impedance S22(Balanced)

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx(50/50ohm)	DATE	Jan. 13, 2004
FMD Part Number	FAR-F5EB-942M50-B28A	Version 2.1b	

