

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM-Rx (50/200ohm)	DATE	Jan. 16, 2004
FMD Part Number	FAR-F5CQ-942M50-B25D	Version 3.0c	

Table 1 Electrical Specification

Passband : 925 ~ 960 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	925 ~ 960	-	1.9	2.9	dB	
Ripple	925 ~ 960	-	0.6	1.6	dB	
Absolute attenuation	DC ~ 880	45	61	-	dB	
	880 ~ 905	30	43	-	dB	
	905 ~ 915	20	32	-	dB	
	980 ~ 1025	25	31	-	dB	
	1025 ~ 2880	38	55	-	dB	
	2880 ~ 6000	35	50	-	dB	
VSWR(Input)	925 ~ 960	-	1.6	2.0	-	
VSWR(Output)	925 ~ 960	-	1.7	2.1	-	
Amplitude Balance (S ₂₁ /S ₃₁)	925 ~ 960	-0.5	-0.2/+0.3	+0.5	dB	Ta=25 °C
		-1.0		+1.0		
Phase Balance (∠S ₂₁ -∠S ₃₁ +180)	925 ~ 960	-5	-2/+1	+5	deg	Ta=25 °C
		-10		+10		
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	200//56nH			ohm	
Input Power	925 ~ 960			+13	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		2.5typ. x 2.0typ. x 1.0max.			mm	

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● **Dimensions**

Device size: 2.5typ. x 2.0typ. x 1.0max.

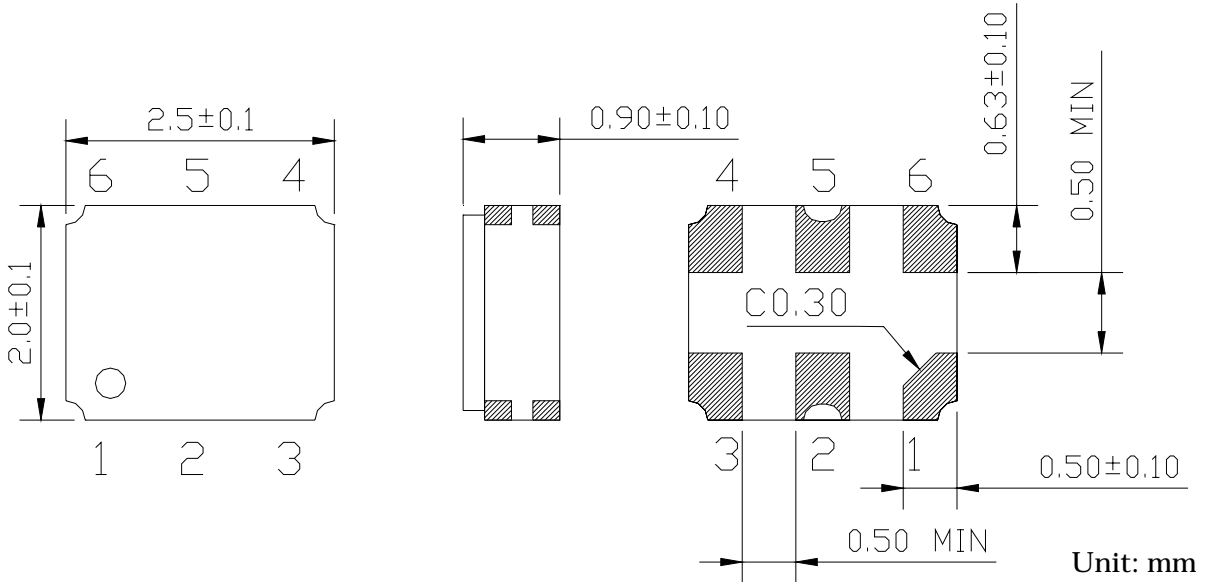


Fig.1

● **Pin Configuration**

Table 2

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

● **Evaluation Circuit**

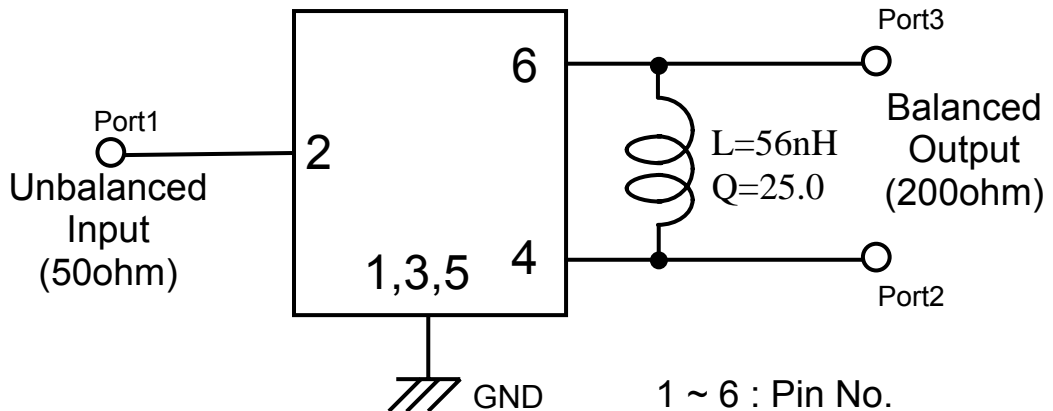
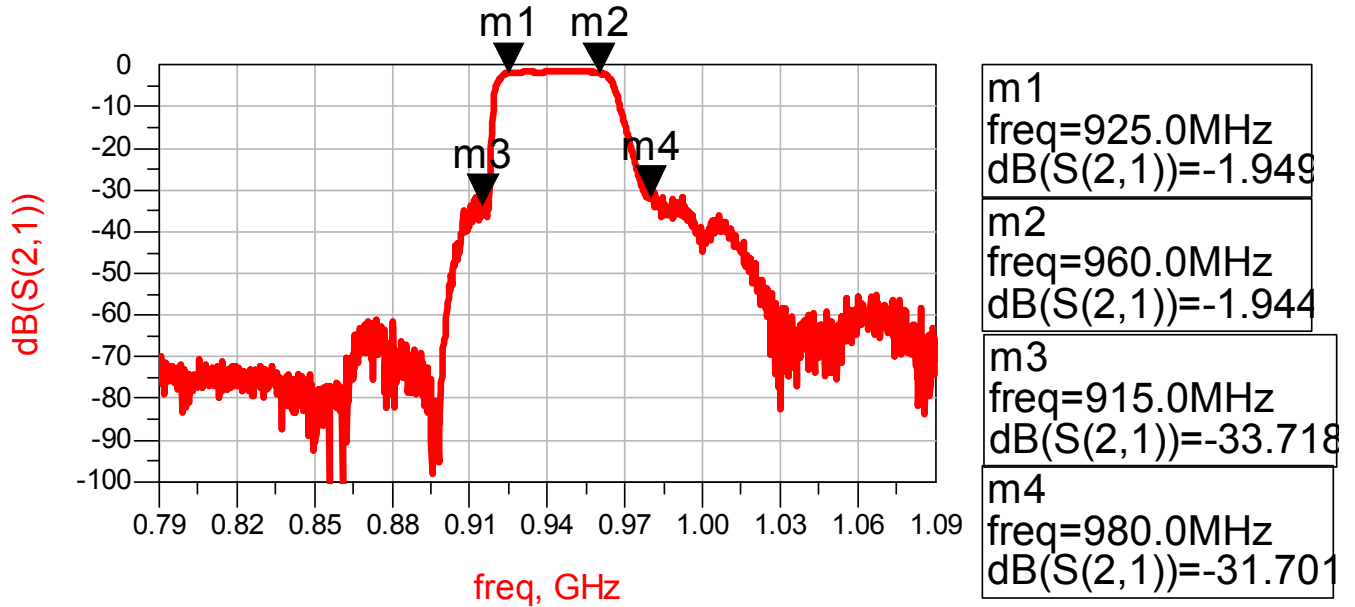
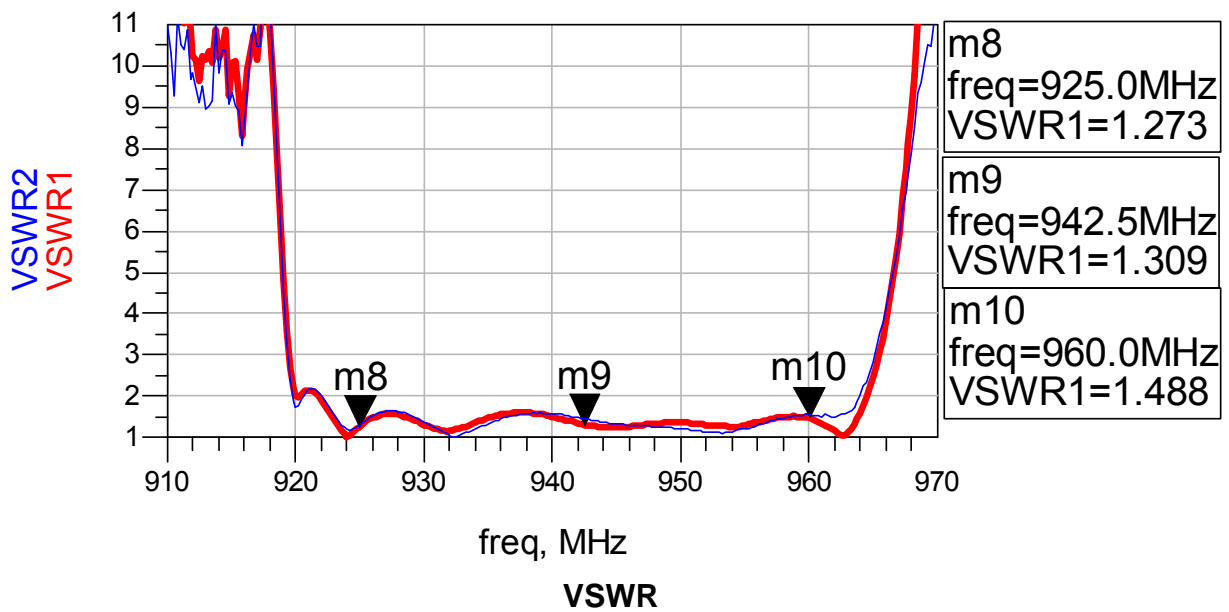


Fig.2 Evaluation circuit

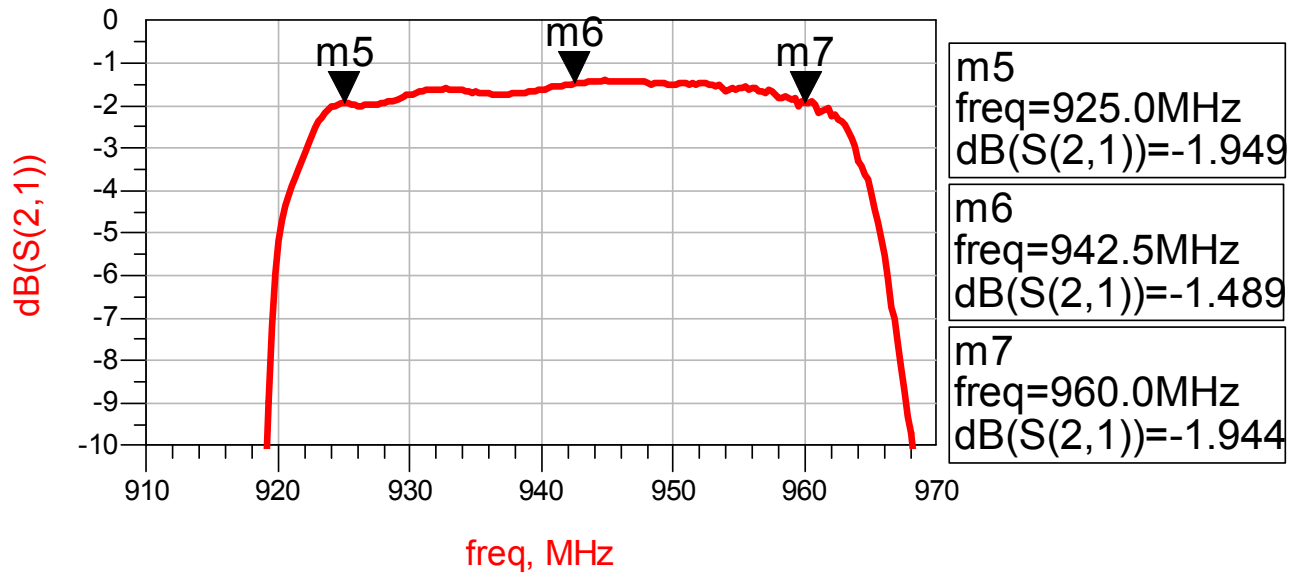
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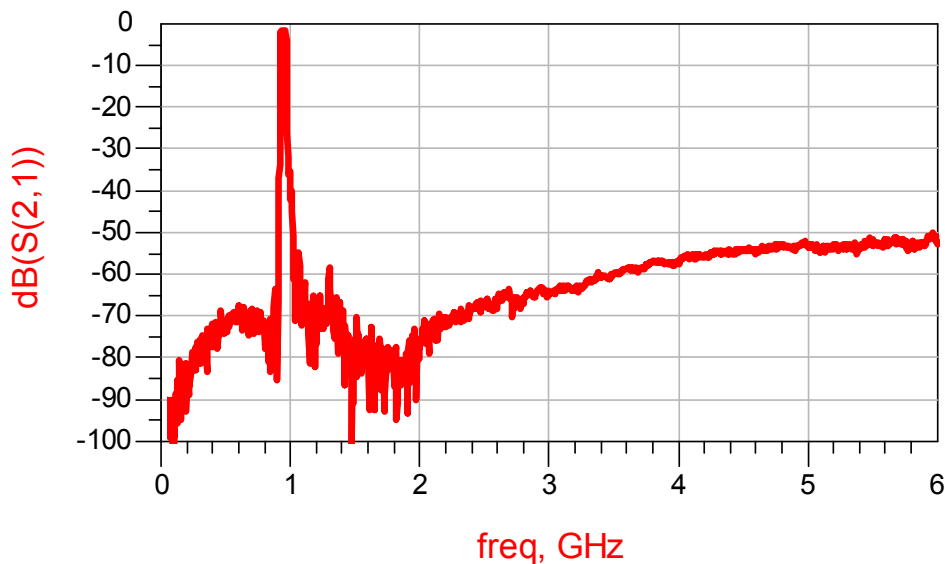
Pass-band Characteristics



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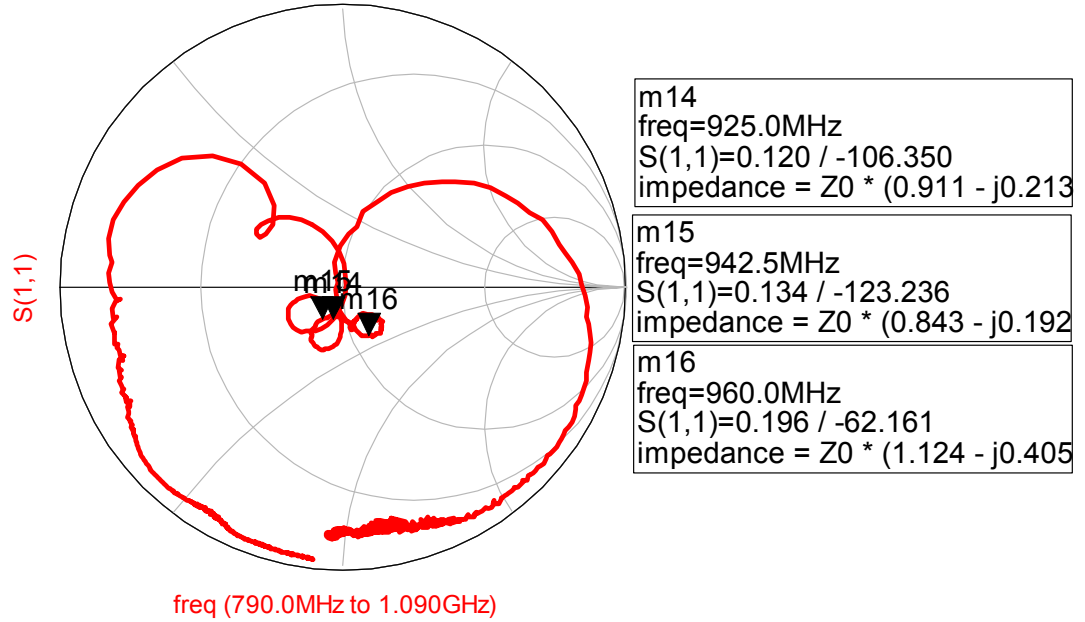


In-band Characteristics

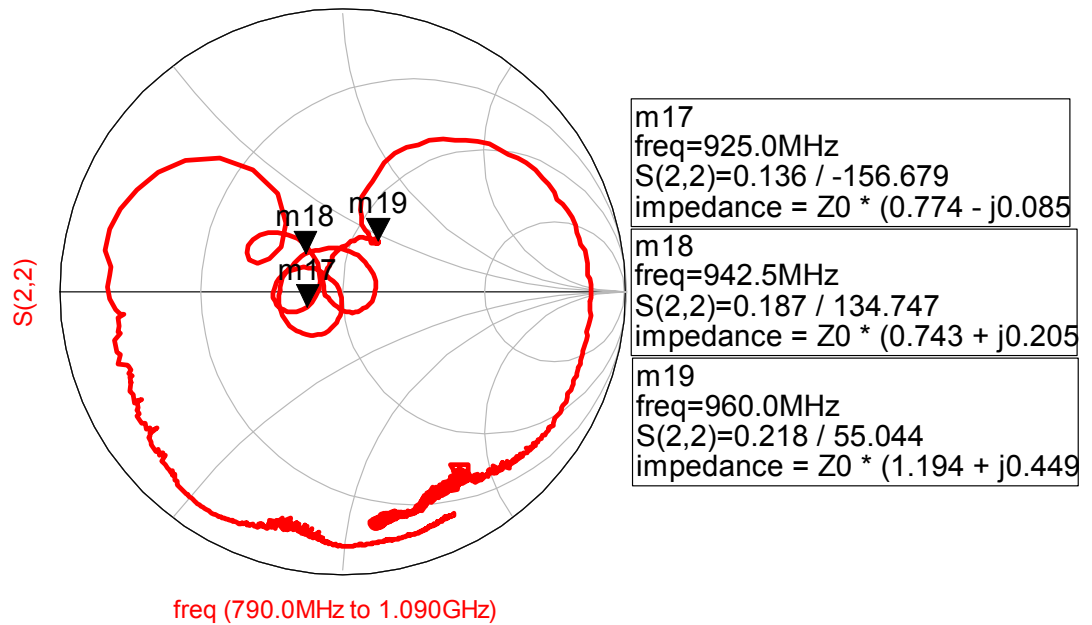


Wide-band Characteristics

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Impedance S11(Unbalanced)



Impedance S22(Balanced)

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