

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM/GSM850-Rx(50/150ohm)	DATE	Apr.25, 2005
FMD Part Number	FAR-G5EE-942M50-Y2PB	Version 1.2fc	

Electrical Specification(Filter 1)

Passband : 925 ~ 960 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	925 ~ 960	-	1.8	2.7	dB	
Ripple	925 ~ 960	-	0.7	1.6	dB	
Absolute attenuation	DC ~ 880	48	59	-	dB	
	880 ~ 905	30	39	-	dB	
	905 ~ 915	17	27	-	dB	
	980 ~ 1025	25	32	-	dB	
	1025 ~ 2880	40	50	-	dB	
	2880 ~ 6000	18	27	-	dB	
VSWR(Input)	925 ~ 960	-	1.8	2.2	-	
VSWR(Output)	925 ~ 960	-	1.8	2.2	-	
Amplitude Balance (S ₂₁ /S ₃₁)	925 ~ 960	-1.0	-0.1/+0.5	+1.0	dB	
Phase Balance (∠S ₂₁ -∠S ₃₁ +180)	925 ~ 960	-10	-0/+4	+10	deg	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	150//68nH			ohm	
Input Power	925 ~ 960			+15	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		2.5typ. x 2.0typ. x 0.6max.			mm	

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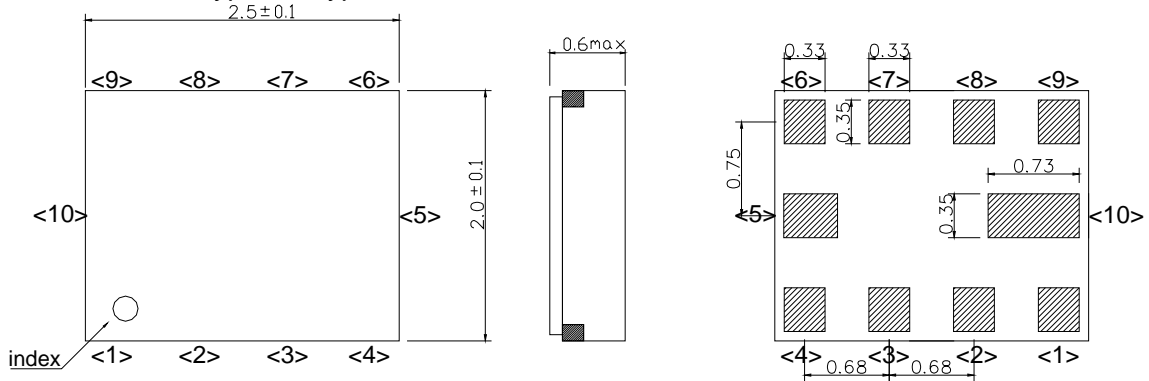
Electrical Specification(Filter 2)

Passband : 869 ~ 894 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	869 ~ 894	-	1.7	2.4	dB	
Ripple	869 ~ 894	-	0.5	1.3	dB	
Absolute attenuation	DC ~ 824	45	57	-	dB	
	824 ~ 849	35	47	-	dB	
	915 ~ 960	20	27	-	dB	
	960 ~ 2000	35	52	-	dB	
	2000 ~ 6000	18	26	-	dB	
VSWR(Input)	869 ~ 894	-	1.5	2.0	-	
VSWR(Output)	869 ~ 894	-	1.6	2.0	-	
Amplitude Balance (S ₂₁ /S ₃₁)	869 ~ 894	-1.0	-0.2/+0.2	+1.0	dB	
Phase Balance (∠S ₂₁ -∠S ₃₁ +180)	869 ~ 894	-10	-1/+1	+10	deg	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	150			ohm	
Input Power	869 ~ 894			+15	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		2.5typ. x 2.0typ. x 0.6max.			mm	

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Dimensions

Device size: 2.5typ. x 2.0typ. x 0.6max



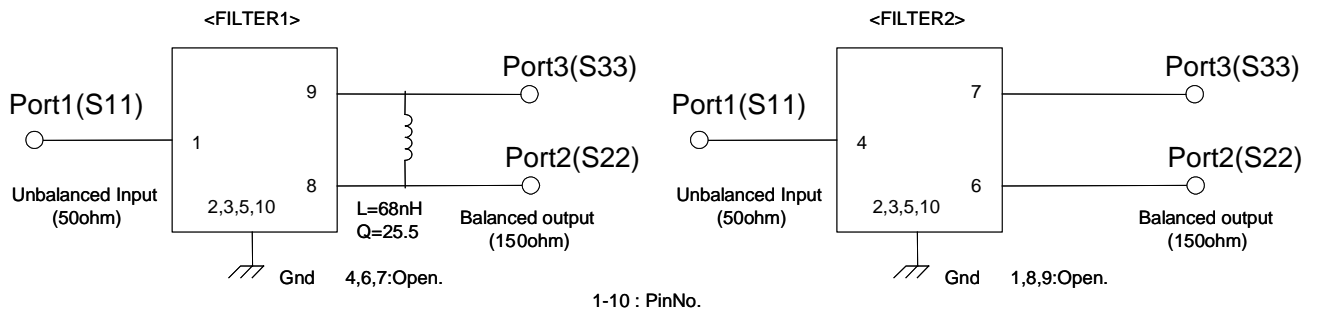
Unit : mm

Pin Configuration

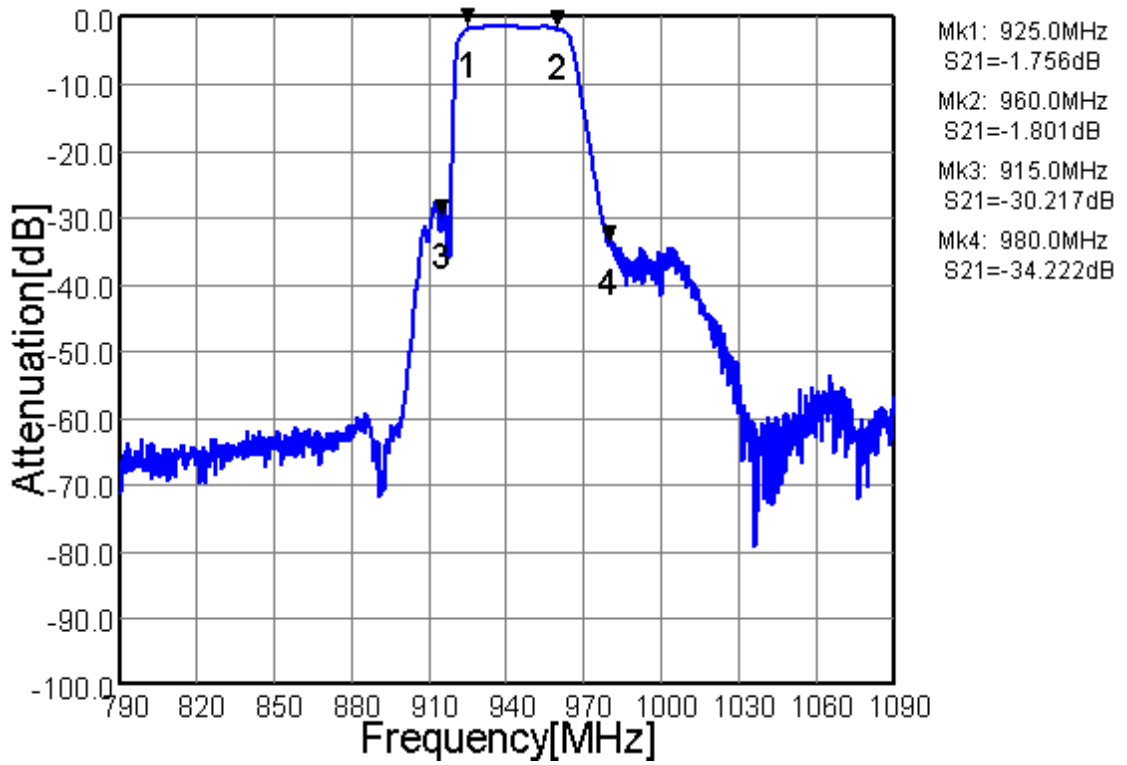
Pin No.	Pin name	Description
1	IN	Filter1 input pin(Port1)
2	GND	Ground
3	GND	Ground
4	IN	Filter2 input pin(Port1)
5	GND	Ground
6	OUT	Filter2 balanced output pin(Port2)
7	OUT	Filter2 balanced output pin(Port3)
8	OUT	Filter1 balanced output pin(Port2)
9	OUT	Filter1 balanced output pin(Port3)
10	GND	Ground

Filter No.	Passband(MHz)	System
1	925 ~ 960	EGSM-Rx
2	869 ~ 894	GSM850-Rx

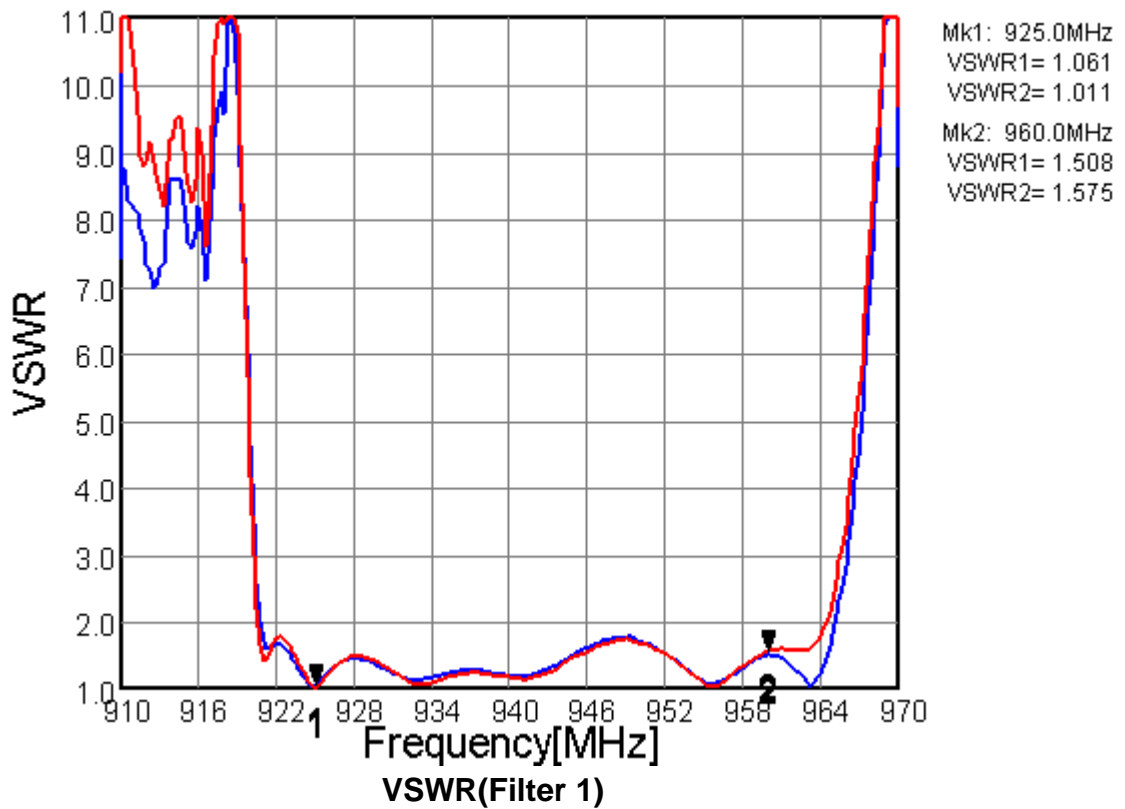
Test Condition



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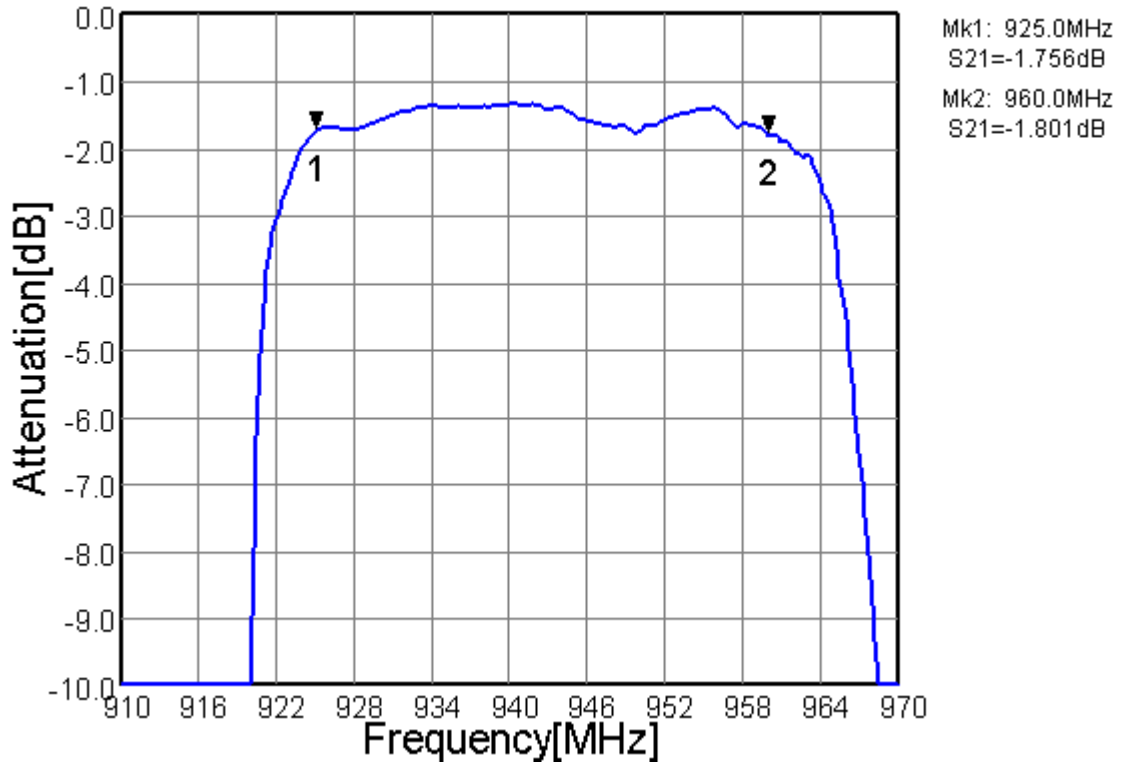


Pass-band Characteristics(Filter 1)

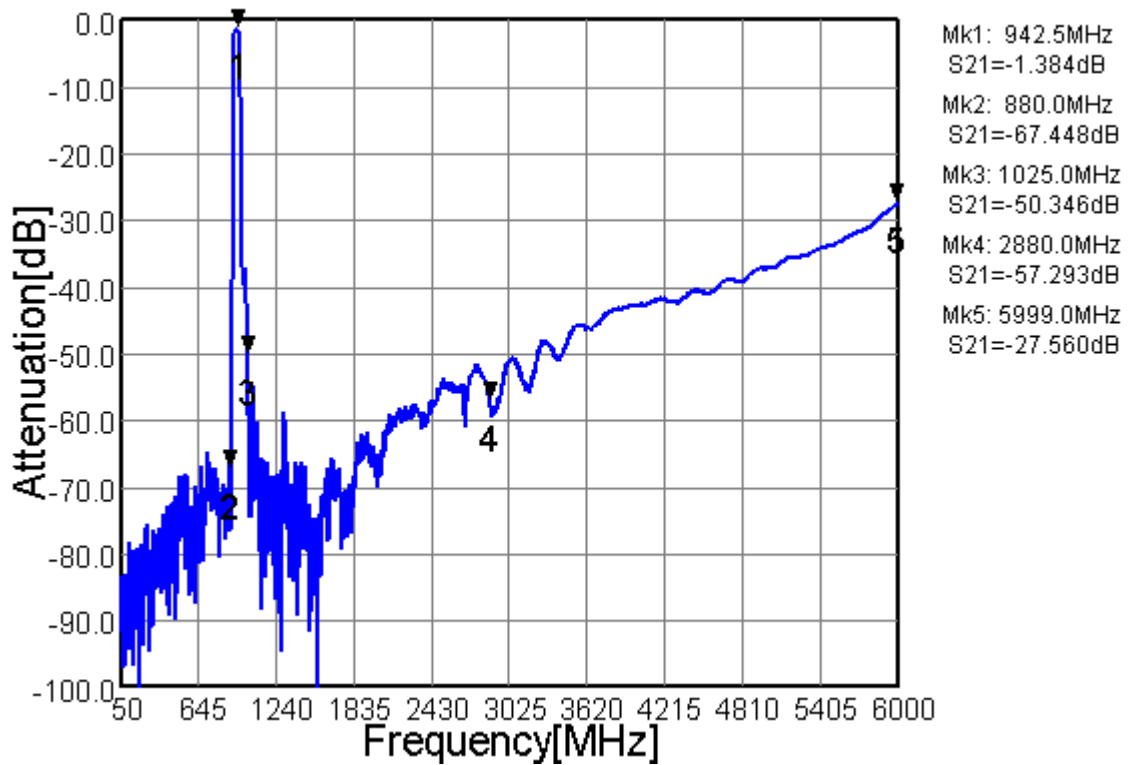


VSWR(Filter 1)

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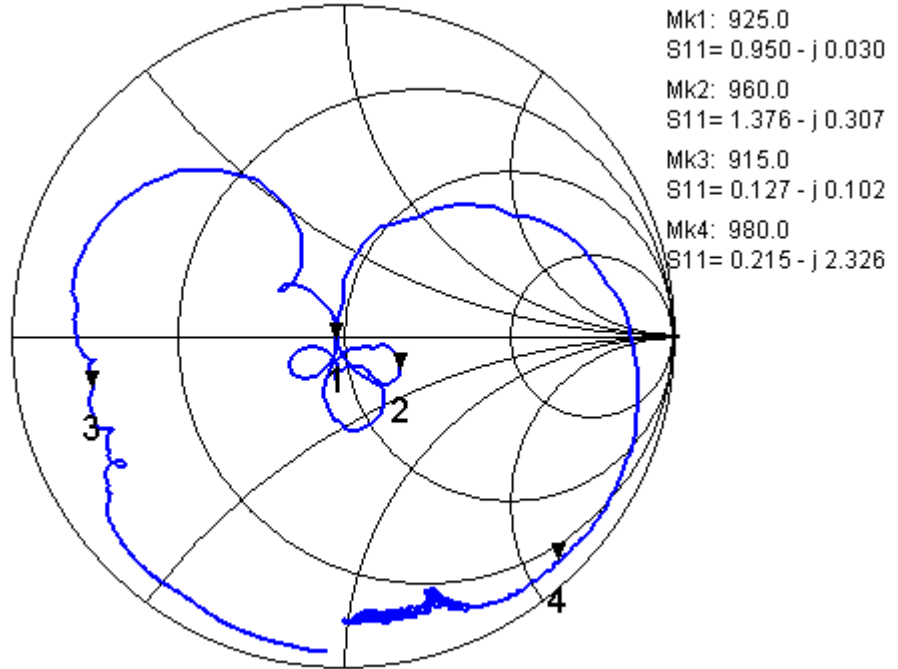


In-band Characteristics(Filter 1)

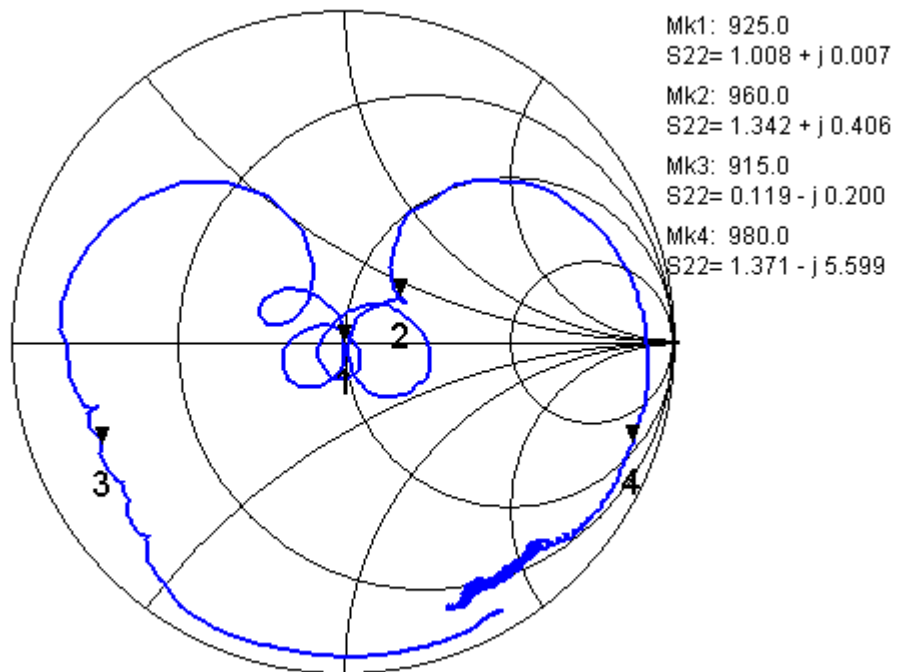


Wide-band Characteristics(Filter 1)

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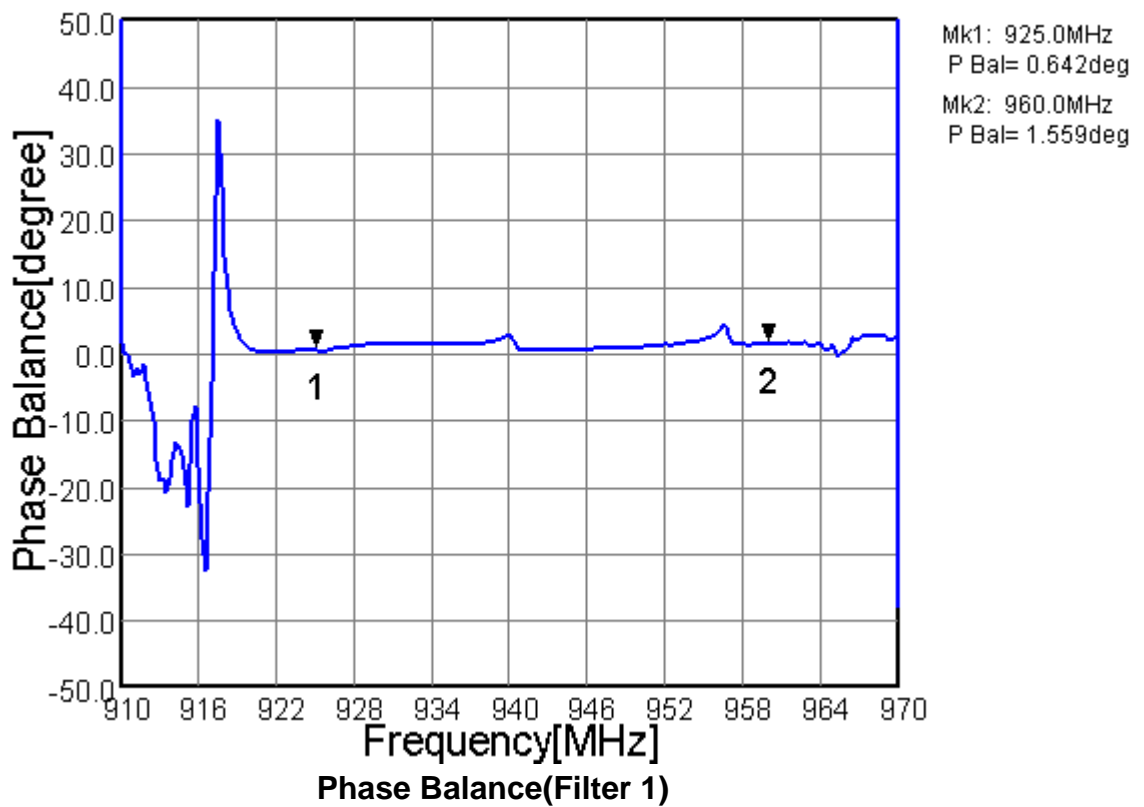
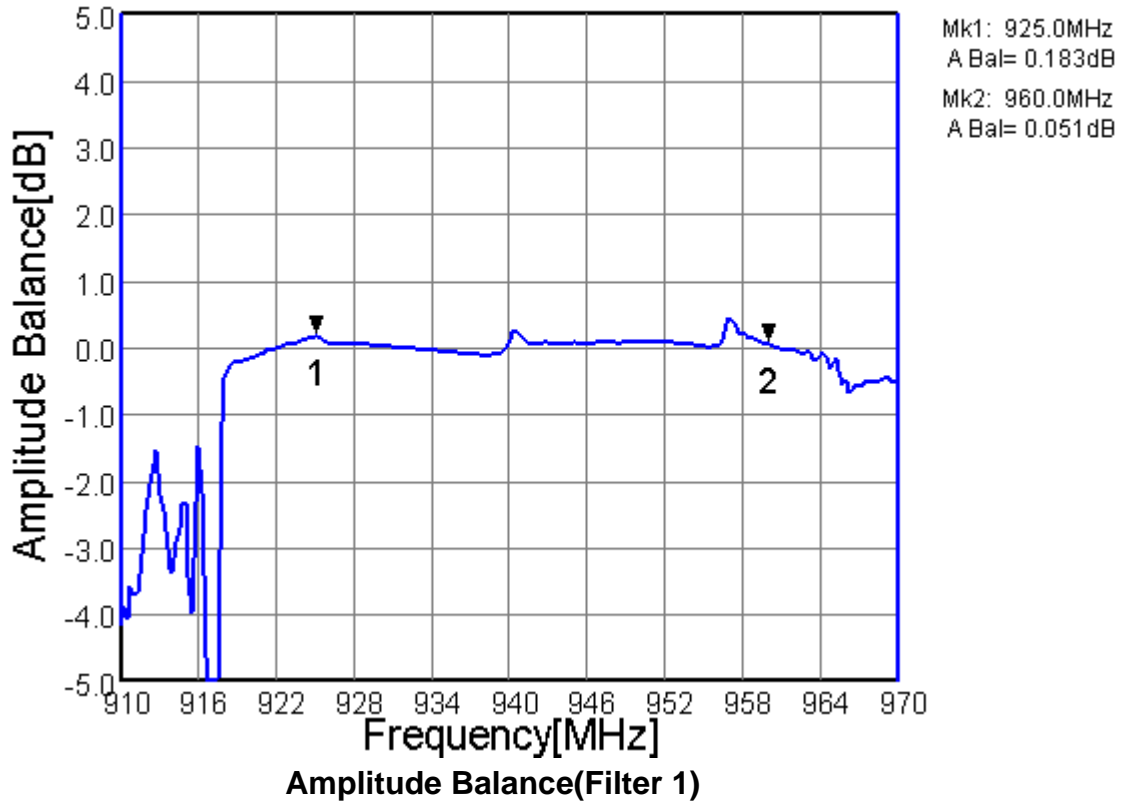


Impedance S11(Unbalanced) (Filter 1)

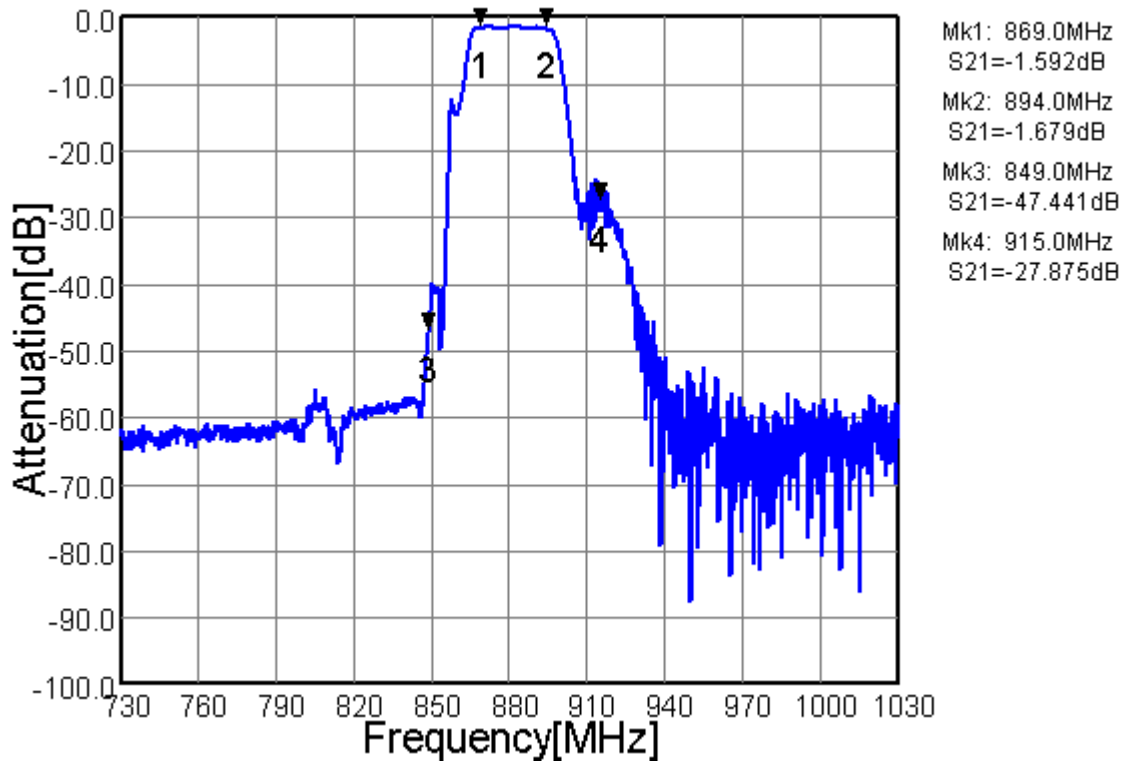


Impedance S22(Balanced) (Filter 1)

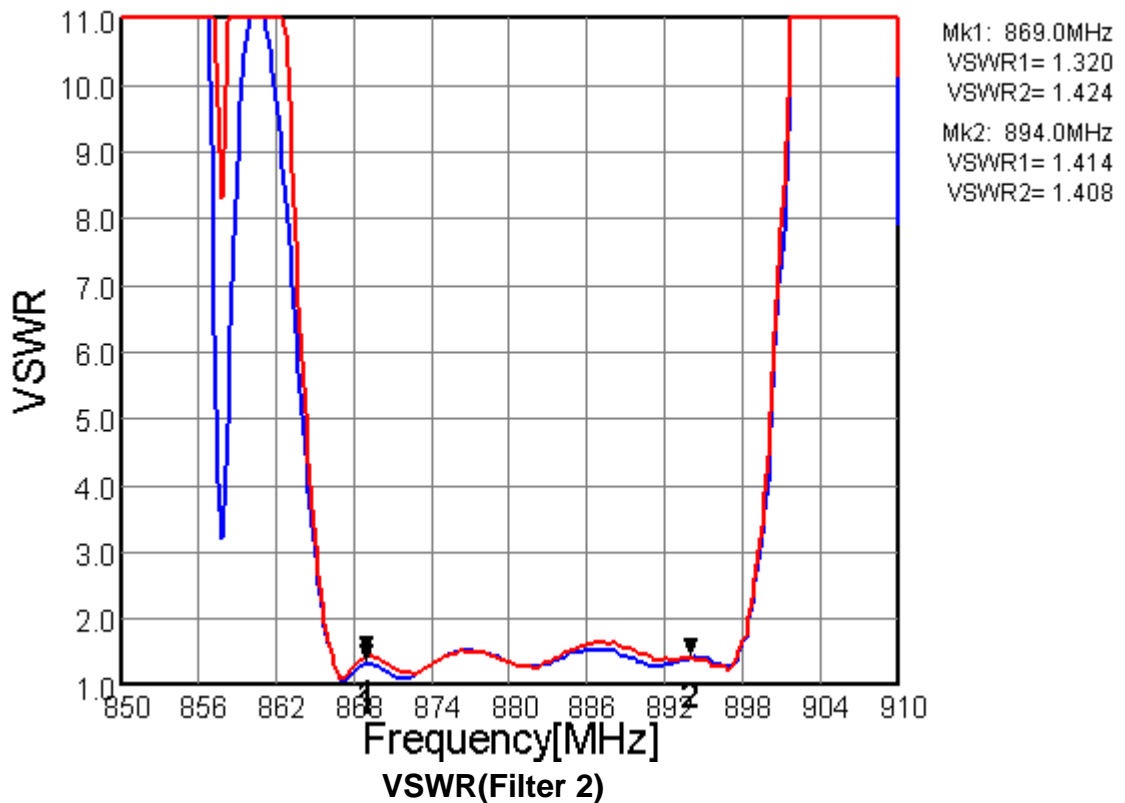
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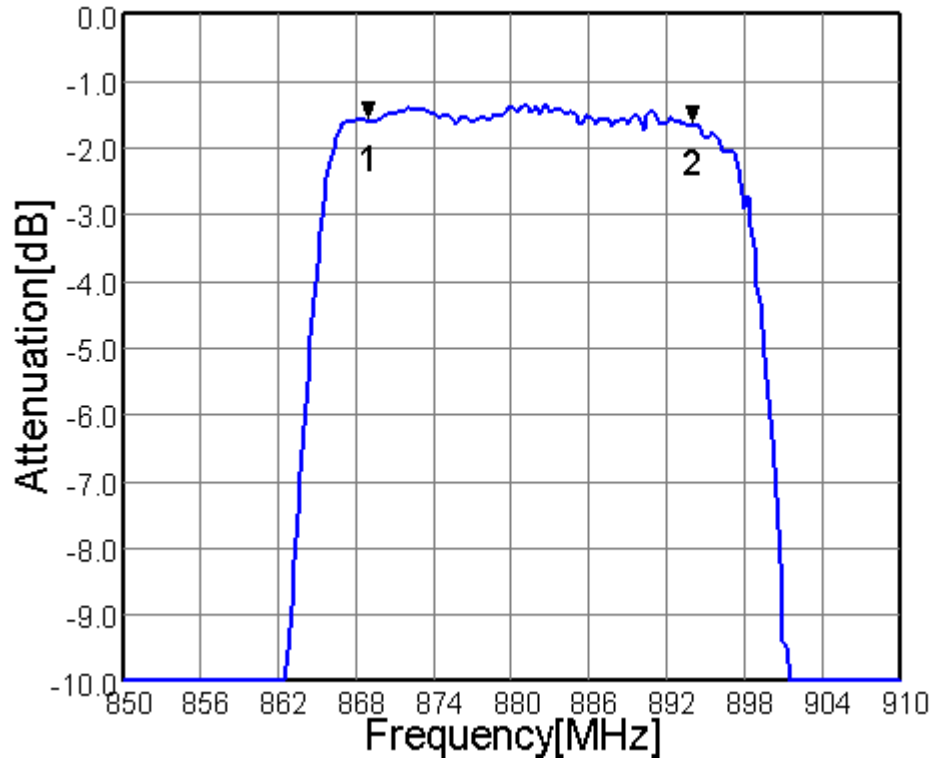
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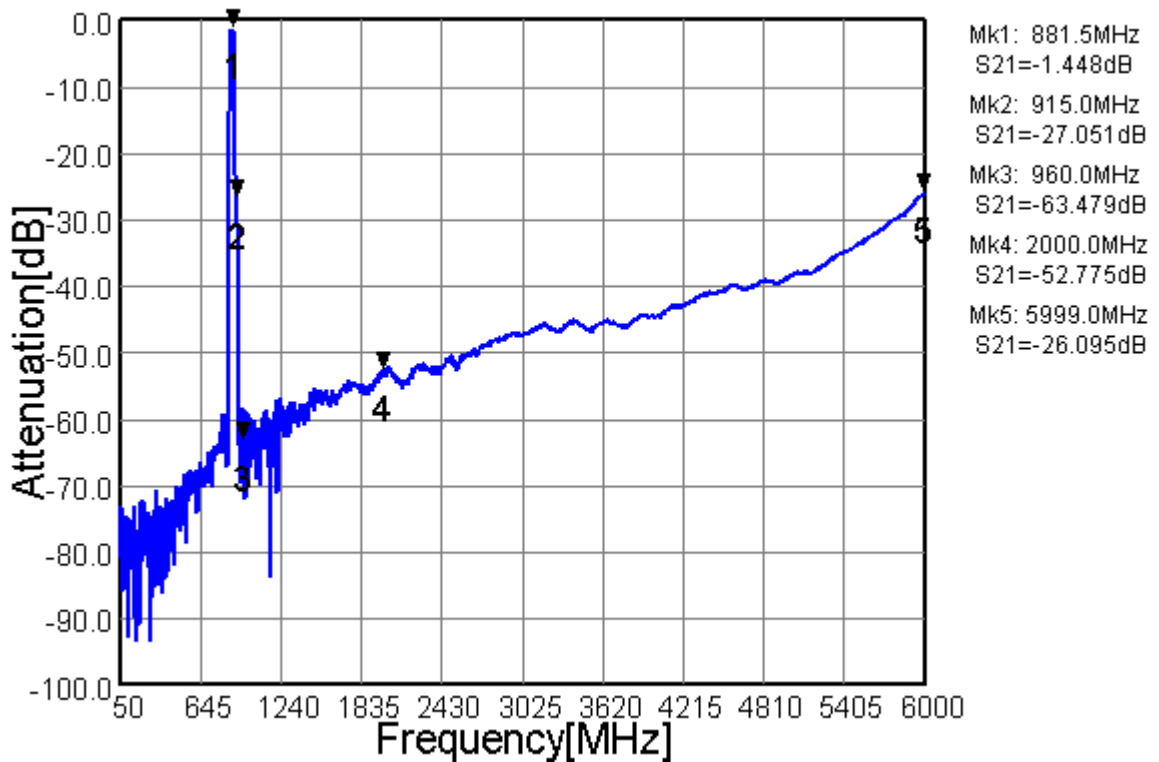
Pass-band Characteristics(Filter 2)



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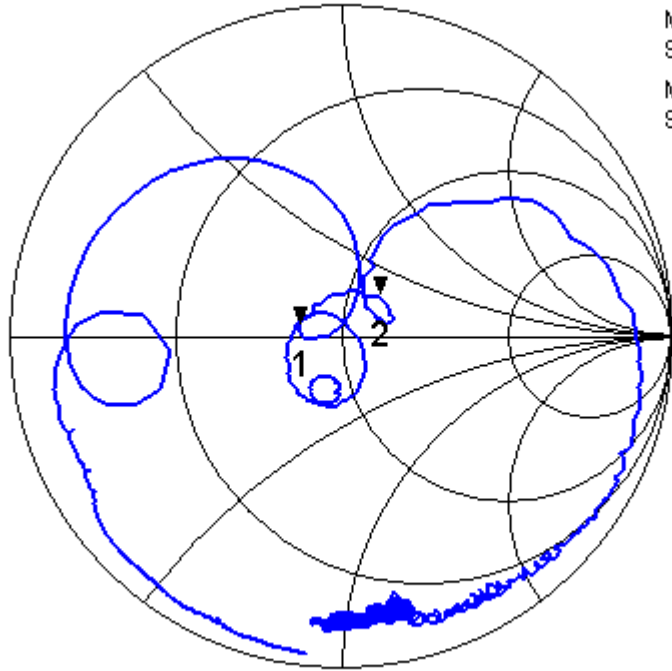


In-band Characteristics(Filter 2)



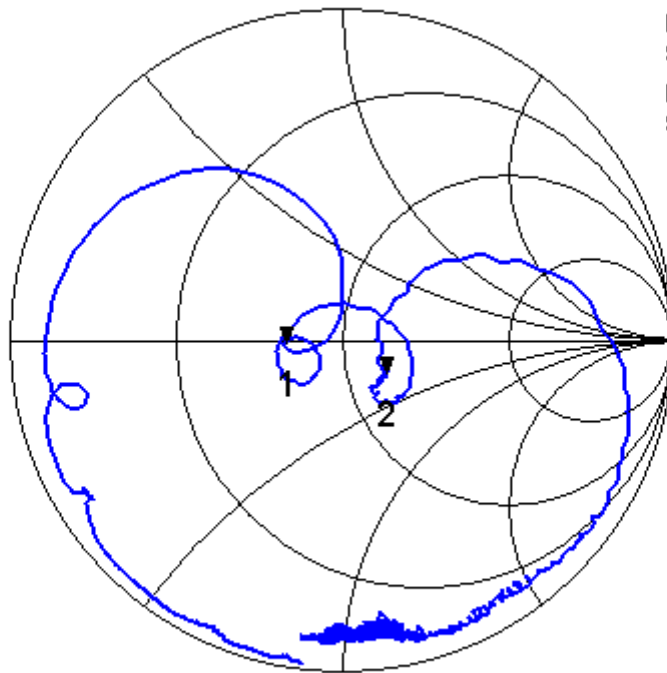
Wide-band Characteristics(Filter 2)

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Mk1: 869.0
 S11= 0.765 + j 0.062
 Mk2: 894.0
 S11= 1.215 + j 0.318

Impedance S11(Unbalanced) (Filter 2)



Mk1: 869.0
 S22= 0.703 - j 0.021
 Mk2: 894.0
 S22= 1.278 - j 0.272

Impedance S22(Balanced) (Filter 2)

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