

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	DCS/EGSM -Rx(50/150ohm)	DATE	Aug. 19, 2005
FMD Part Number	FAR-G6EE-1G8425-Y2PN	Version 1.2jh	

Electrical Specification(Filter 1)

Passband : 1805 ~ 1880 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	1805 ~ 1880	-	1.8	3.0	dB	
Ripple	1805 ~ 1880	-	0.5	1.9	dB	
Absolute attenuation	DC ~ 1300	40	45	-	dB	
	1300 ~ 1705	28	34	-	dB	
	1705 ~ 1785	10	20	-	dB	
	1920 ~ 1980	16	23	-	dB	
	1980 ~ 3000	22	26	-	dB	
	3000 ~ 5000	35	45	-	dB	
	5000 ~ 6000	25	45	-	dB	
VSWR(Input)	1805 ~ 1880	-	1.9	2.7	-	
VSWR(Output)	1805 ~ 1880	-	1.8	2.7	-	
Amplitude Balance (S ₂₁ /S ₃₁)	1805 ~ 1880	-1.4	-0.6/+0.8	+1.4	dB	
Phase Balance (∠S ₂₁ -∠S ₃₁ +180)	1805 ~ 1880	-11	-2/+6	+11	deg	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	150//12nH			ohm	
Input Power	1805 ~ 1880			+10	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		2.5typ. x 2.0typ. x 0.6max.			mm	

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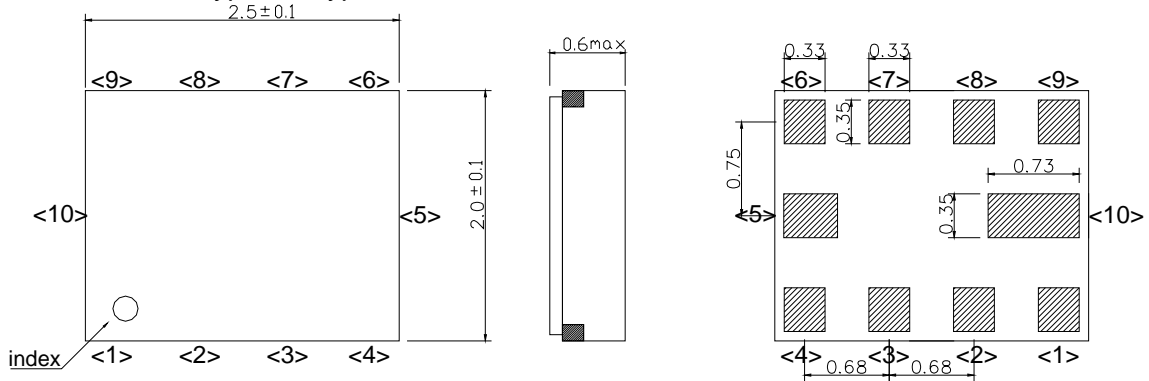
Electrical Specification(Filter 2)

Passband : 925 ~ 960 MHz						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	925 ~ 960	-	1.7	2.5	dB	
Ripple	925 ~ 960	-	0.4	1.5	dB	
Absolute attenuation	DC ~ 880	48	70	-	dB	
	880 ~ 905	30	46	-	dB	
	905 ~ 915	18	26	-	dB	
	980 ~ 1025	25	29	-	dB	
	1025 ~ 2880	40	47	-	dB	
	2880 ~ 6000	20	43	-	dB	
VSWR(Input)	925 ~ 960	-	1.7	2.1	-	
VSWR(Output)	925 ~ 960	-	1.6	2.1	-	
Amplitude Balance (S ₂₁ /S ₃₁)	925 ~ 960	-1.0	-0.0/0.7	+1.0	dB	
Phase Balance (∠S ₂₁ -∠S ₃₁ +180)	925 ~ 960	-10	-1/+3	+10	deg	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	150//82nH			ohm	
Input Power	925 ~ 960			+15	dBm	
Operating temperature		-30 ~ +85			°C	
Device size		2.5typ. x 2.0typ. x 0.6max.			mm	

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Dimensions

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



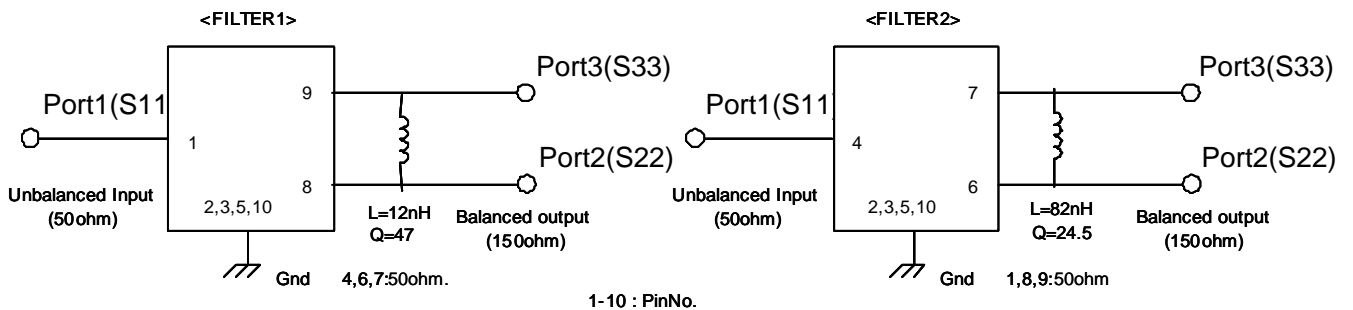
Unit : mm

Pin Configuration

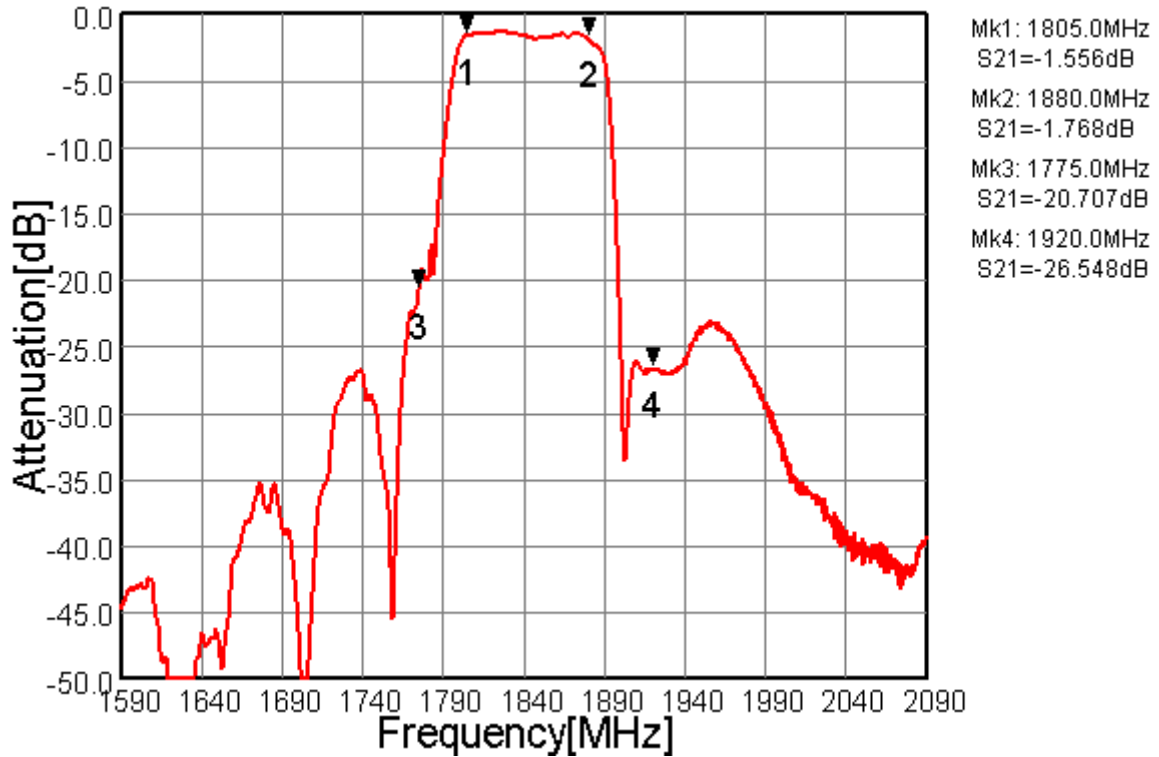
Pin No.	Pin name	Description
1	IN	Filter1 input pin(Port1)
2	GND	Ground
3	GND	Ground
4	IN	Filter2 input pin(Port1)
5	GND	Ground
6	OUT	Filter2 balanced output pin(Port2)
7	OUT	Filter2 balanced output pin(Port3)
8	OUT	Filter1 balanced output pin(Port2)
9	OUT	Filter1 balanced output pin(Port3)
10	GND	Ground

Filter No.	Passband(MHz)	System
1	1805 ~ 1880	DCS-Rx
2	925 ~ 960	EGSM-Rx

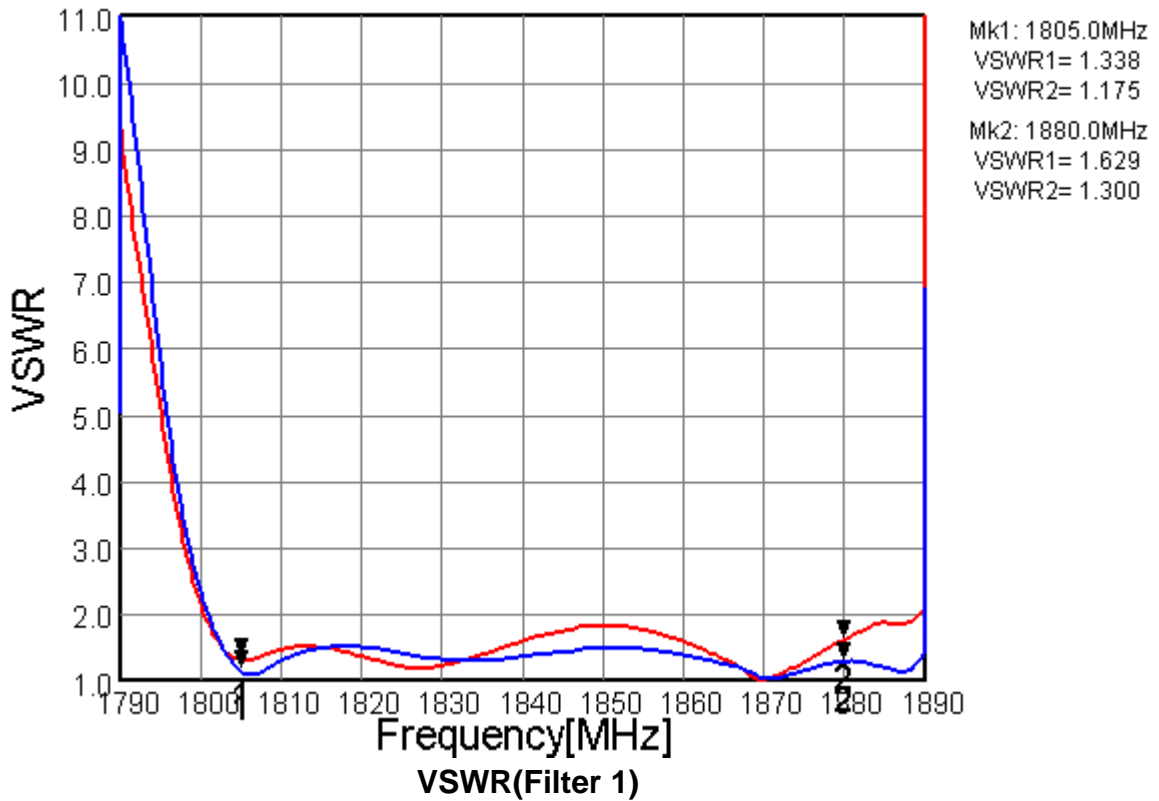
Test Condition



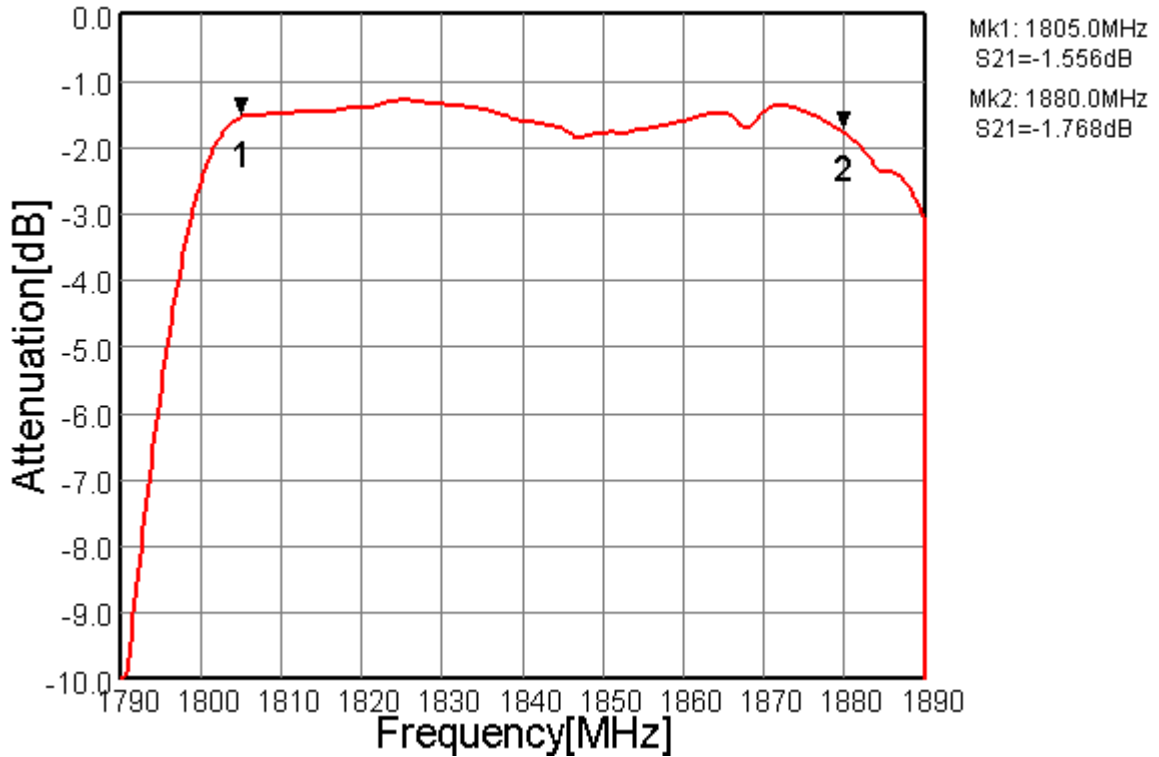
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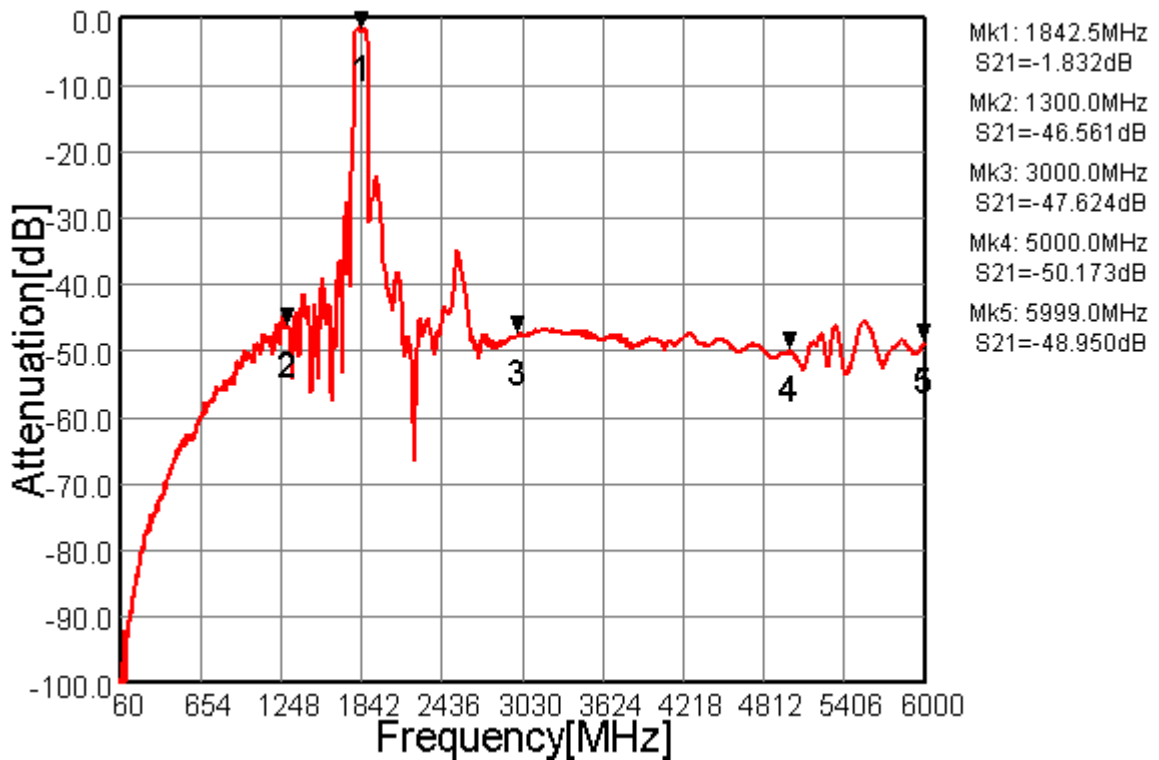
Pass-band Characteristics(Filter 1)



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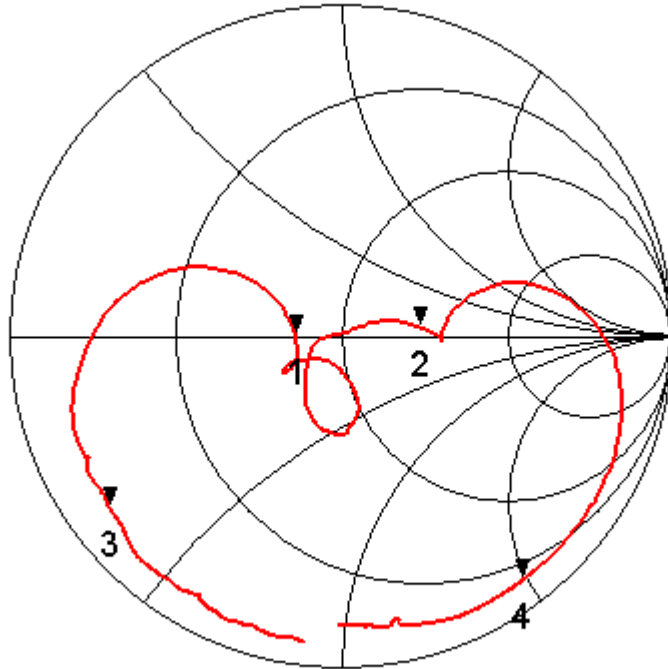


In-band Characteristics(Filter 1)



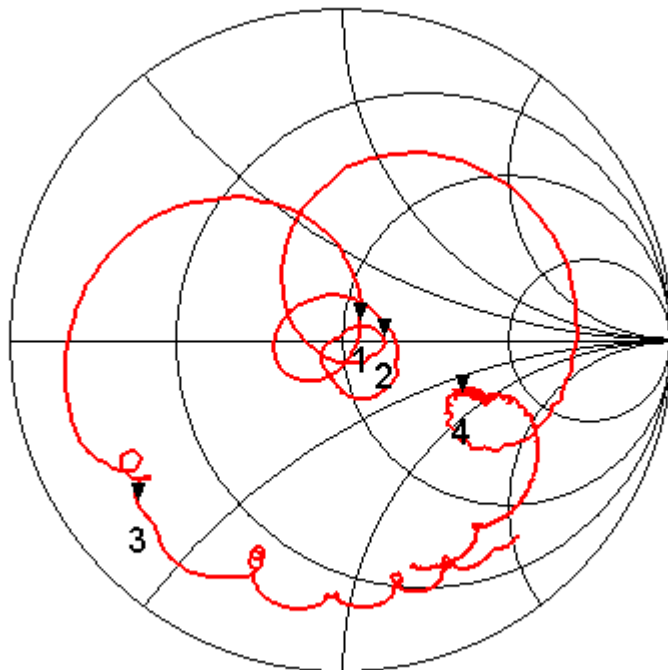
Wide-band Characteristics(Filter 1)

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Mk1: 1805.0
 S11= 0.748 + j 0.011
 Mk2: 1880.0
 S11= 1.616 + j 0.114
 Mk3: 1775.0
 S11= 0.076 - j 0.327
 Mk4: 1920.0
 S11= 0.216 - j 1.974

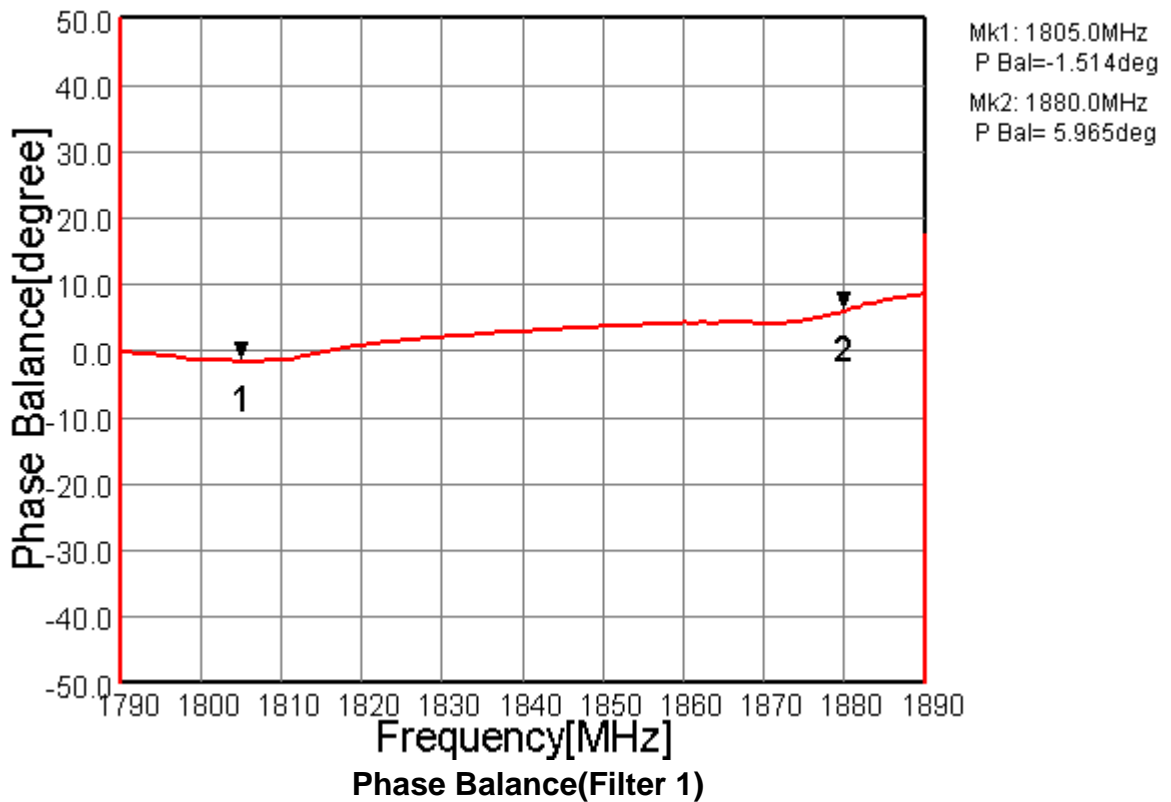
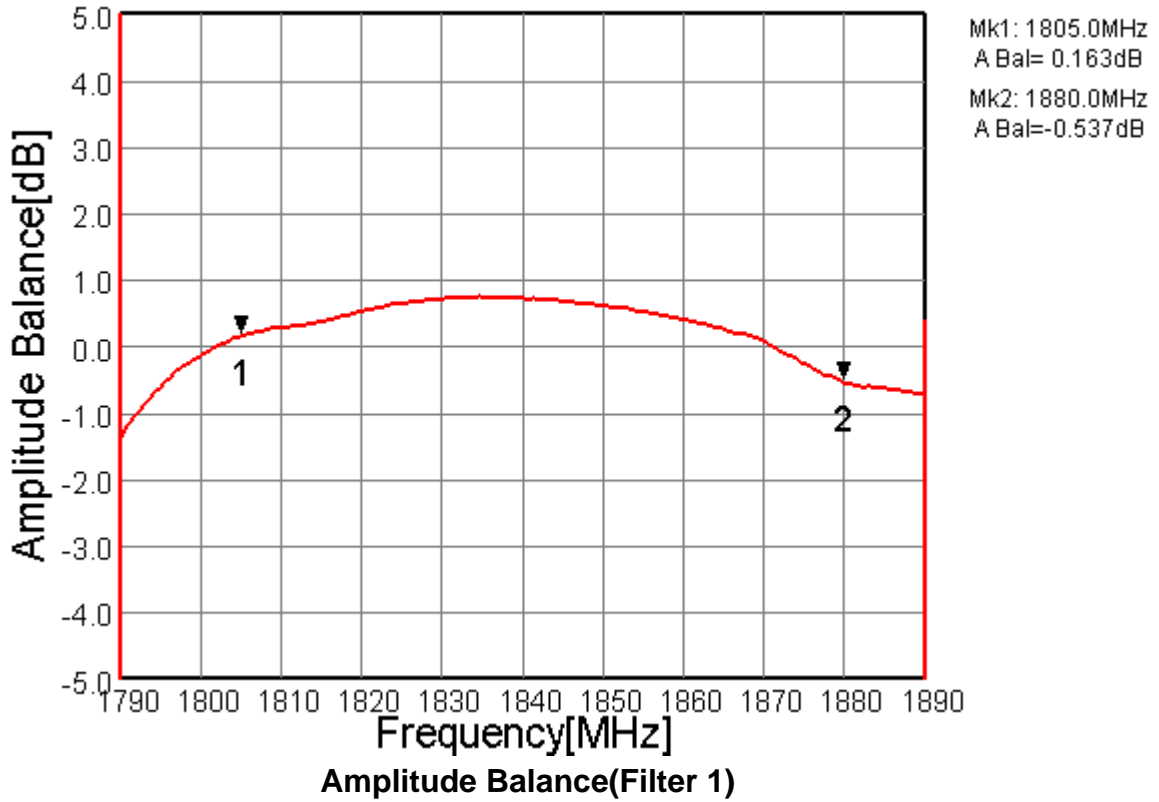
Impedance S11(Unbalanced) (Filter 1)



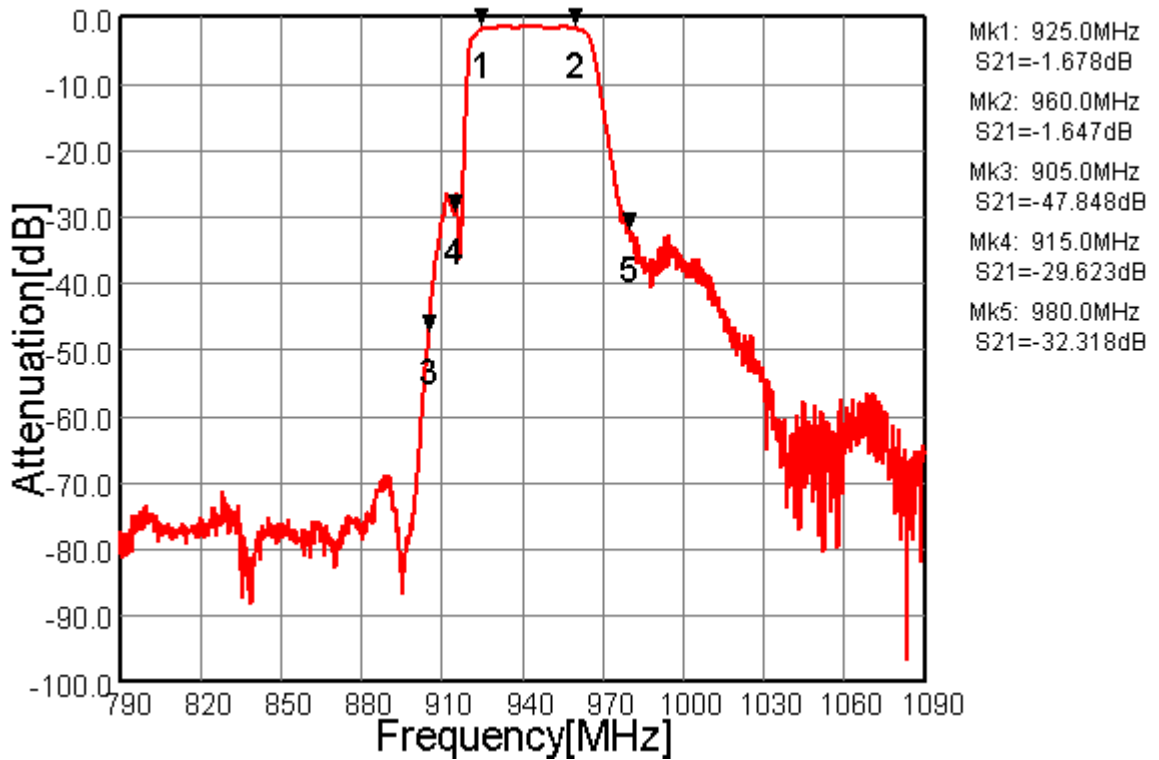
Mk1: 1805.0
 S22= 1.116 + j 0.125
 Mk2: 1880.0
 S22= 1.299 + j 0.025
 Mk3: 1775.0
 S22= 0.132 - j 0.343
 Mk4: 1920.0
 S22= 1.949 - j 0.758

Impedance S22(Balanced) (Filter 1)

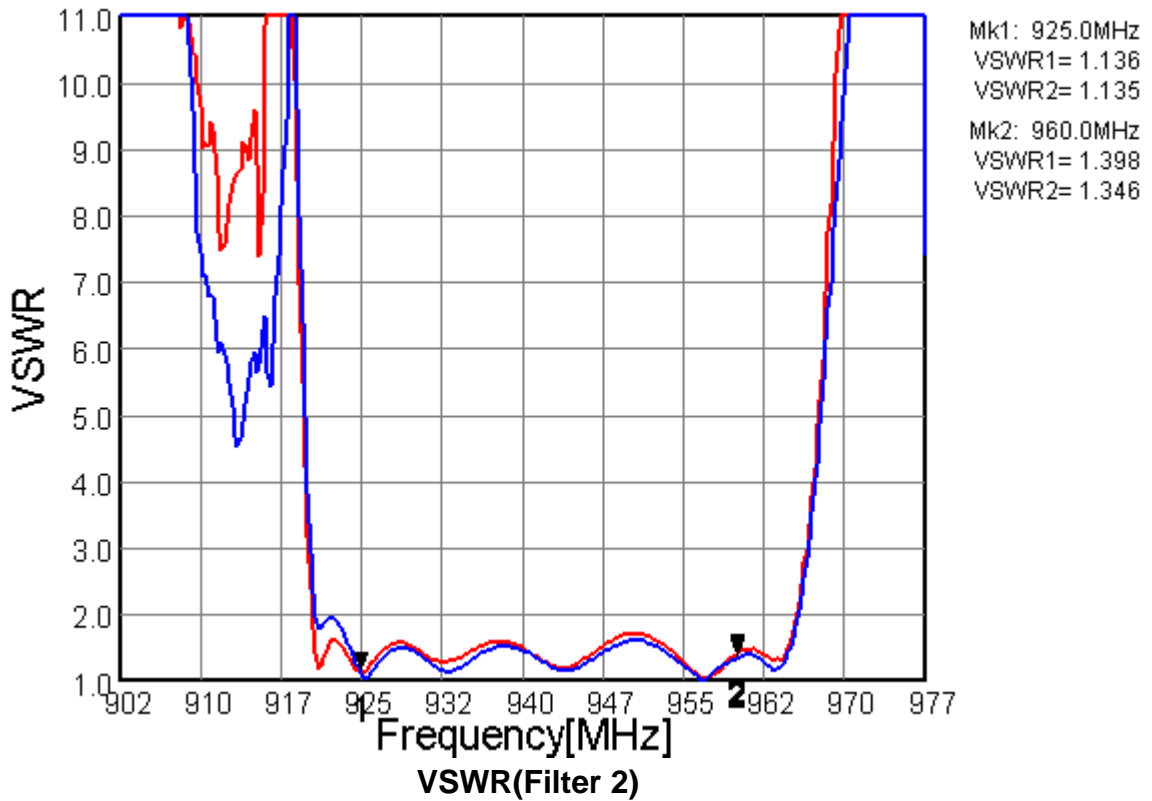
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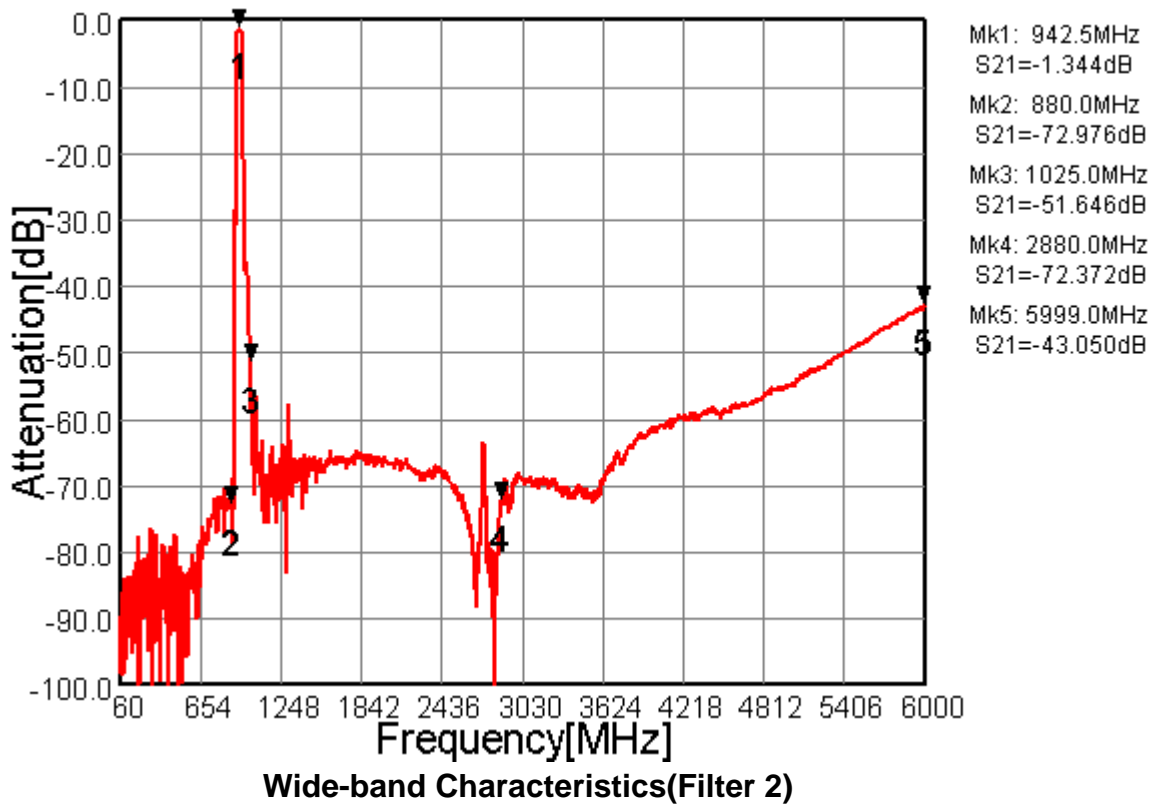
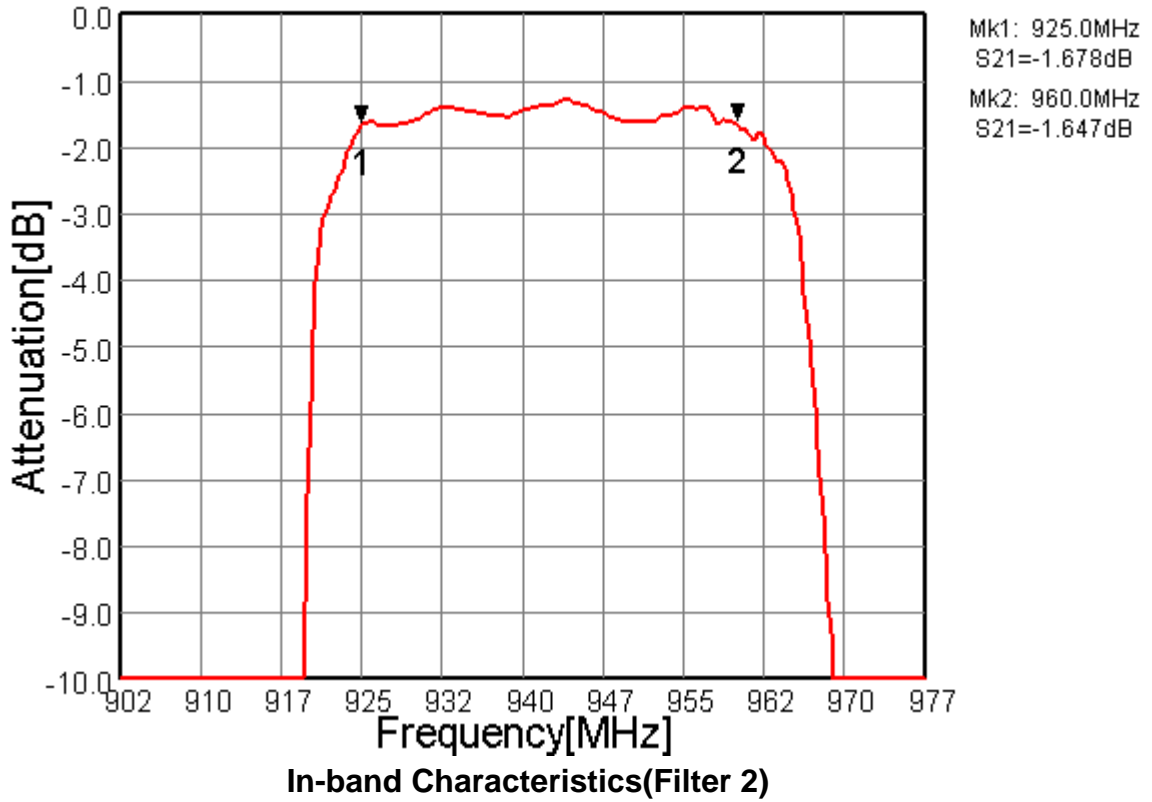


Pass-band Characteristics(Filter 2)

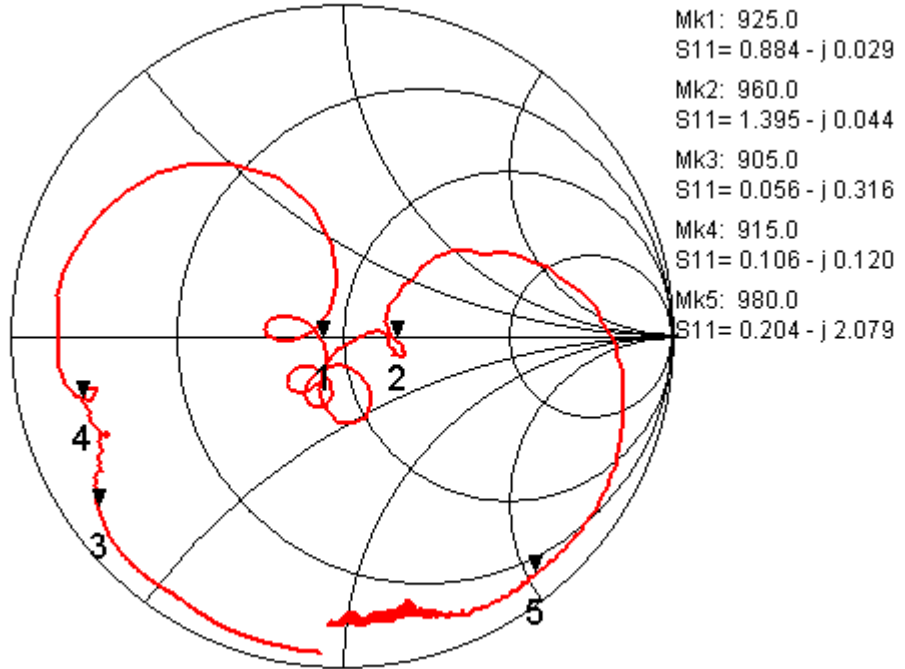


VSWR(Filter 2)

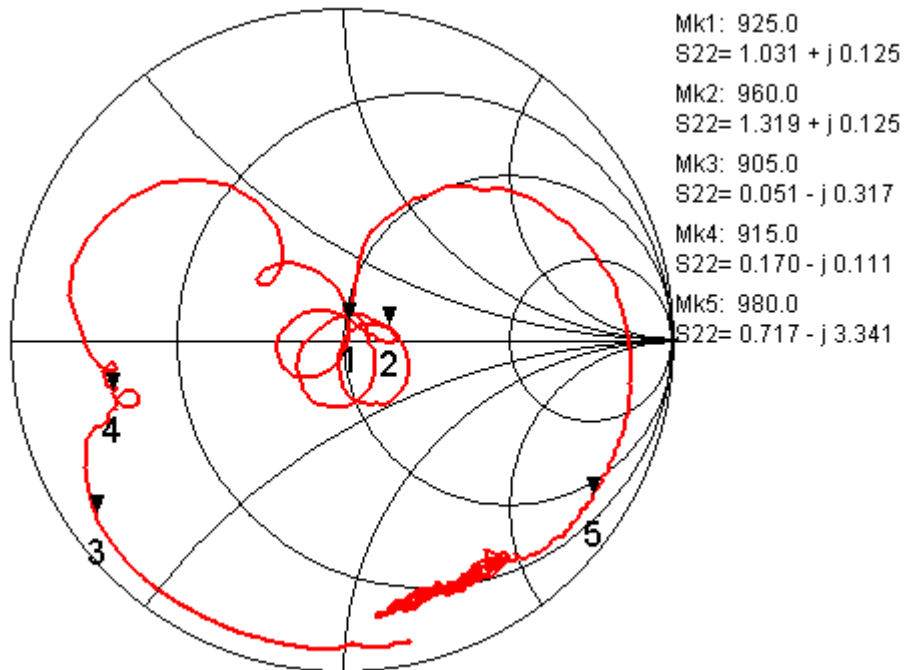
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Impedance S11(Unbalanced) (Filter 2)



Impedance S22(Balanced) (Filter 2)

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