

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
System	Cell/PCS dual balanced filter(50/100ohm)	DATE	Sept. 24, 2004
FMD Part Number	FAR-G6EE-1G9600-Y2MY	Version 1.0dg	

Table 1-1 Electrical Specification

Filter 1:Cell-Rx(Passband : 869 ~ 894 MHz)						
Parameter	Condition	Specification				Remark
		Min.	Typ.	Max.	Unit	
Insertion loss	869 - 894 MHz	-	1.6	2.4	dB	
Ripple in passband	869 - 894 MHz	-	0.6	1.5	dB	
Attenuation	DC - 824 MHz	45	64	-	dB	
	824 - 849 MHz	35	60	-	dB	
	915 - 960 MHz	23	31	-	dB	
	960 - 3000 MHz	40	50	-	dB	
Phase imbalance ($\Phi_{S21}-\Phi_{S31}$)+180	869 - 894 MHz	-10	-0.5/3.5	10	deg.	
Amplitude imbalance $ S_{21} / S_{31} $	869 - 894 MHz	-1.0	-0.1/0.3	1.0	dB	
Input impedance		50			Ohm	
Differential output impedance		100			Ohm	
VSWR (Input)		-	1.6	2.0	dB	
VSWR (Output)		-	1.6	2.0	dB	
Operating Temperature		-30 to +85			°C	

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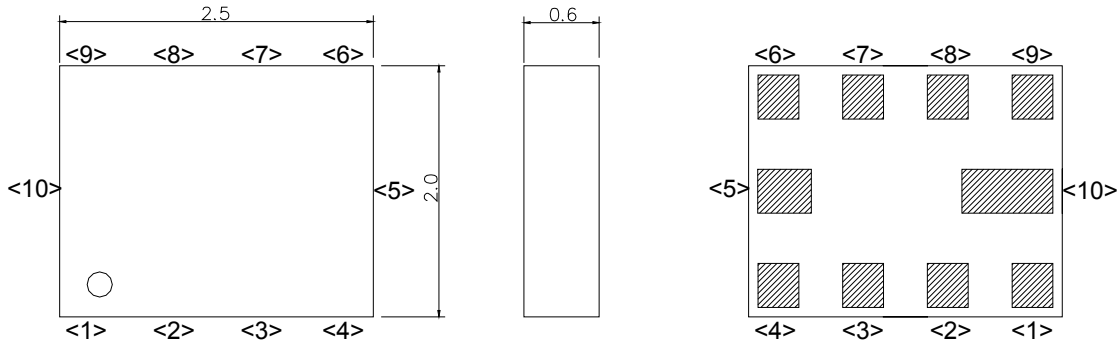
Table 2-1 Electrical Specification

Filter 2:PCS-Rx(Passband : 1930 ~ 1990 MHz)						
Parameter	Condition					Remark
		Min.	Typ.	Max.	Unit	
Insertion loss	1930 - 1990 MHz	-	2.2	3.5	dB	Ta= +10~+70 °C
		-	-	3.8	dB	
Ripple in passband	1930 - 1990 MHz	-	0.8	2.3	dB	
Attenuation	DC - 1850 MHz	30	39	-	dB	
	1850 - 1910 MHz	20	23	-	dB	Ta= +25+/-2 °C
		15	-	-	dB	Ta= -30~+70 °C
		13	-	-	dB	
	2070 - 2200 MHz	22	28	-	dB	
	2200 - 3000 MHz	30	36	-	dB	
3000 - 6000 MHz	17	25	-	dB		
Phase imbalance	1930 - 1990 MHz	14	-5.0/ 8.6	14	deg.	
Amplitude imbalance	1930 - 1990 MHz	1.7	-0.5/1.0	1.7	dB	
Input impedance		50			Ohm	
Differential output impedance		100 // 12 nH			Ohm	
VSWR (Input)		-	1.8	2.4	dB	
VSWR (Output)		-	1.7	2.4	dB	
Operating Temperature		-30 to +85			°C	

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Dimensions

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



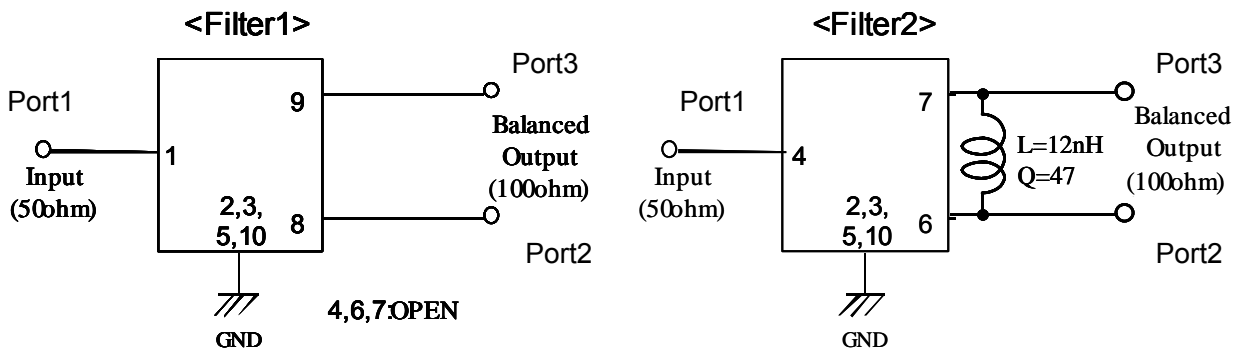
Unit : mm

Pin Configuration

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

Filter No.	Passband(MHz)	System
1	869 ~ 894	Cell-Rx
2	1930.6 ~ 1989.4	PCS-Rx

Test Condition 1



1~10 : Pin No.

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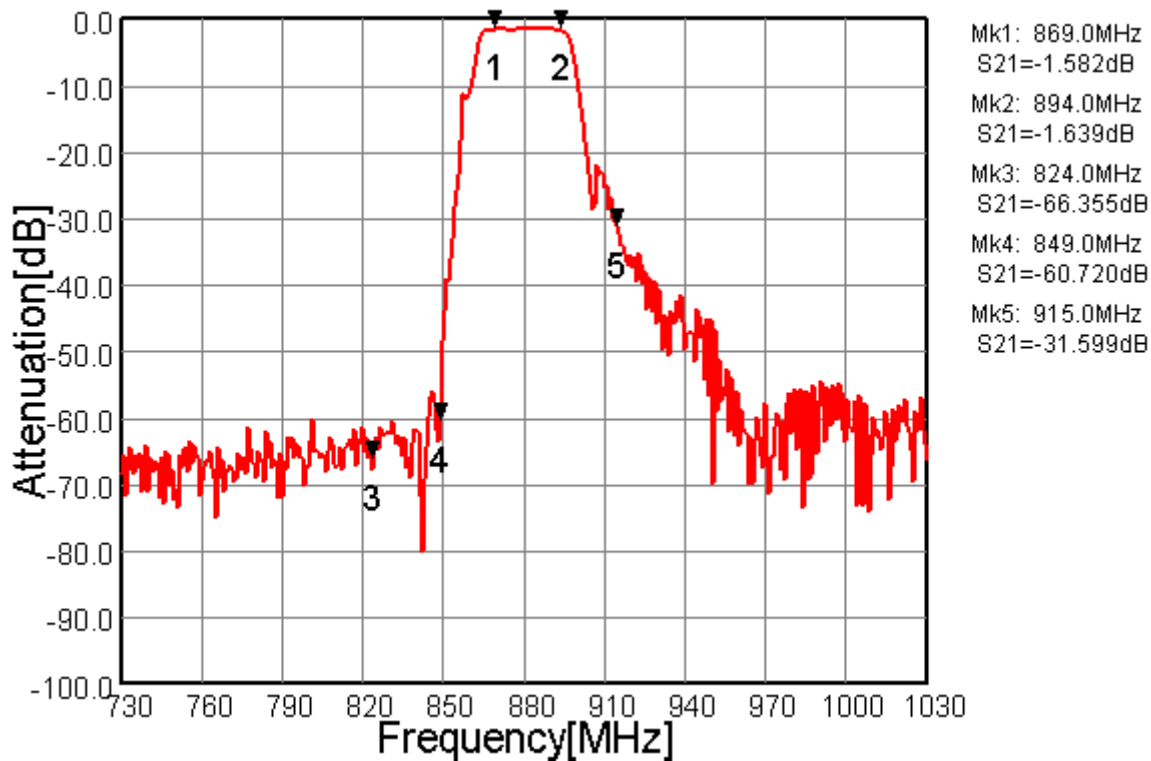


Fig.1-1 Pass-band Characteristics (Filter 1)

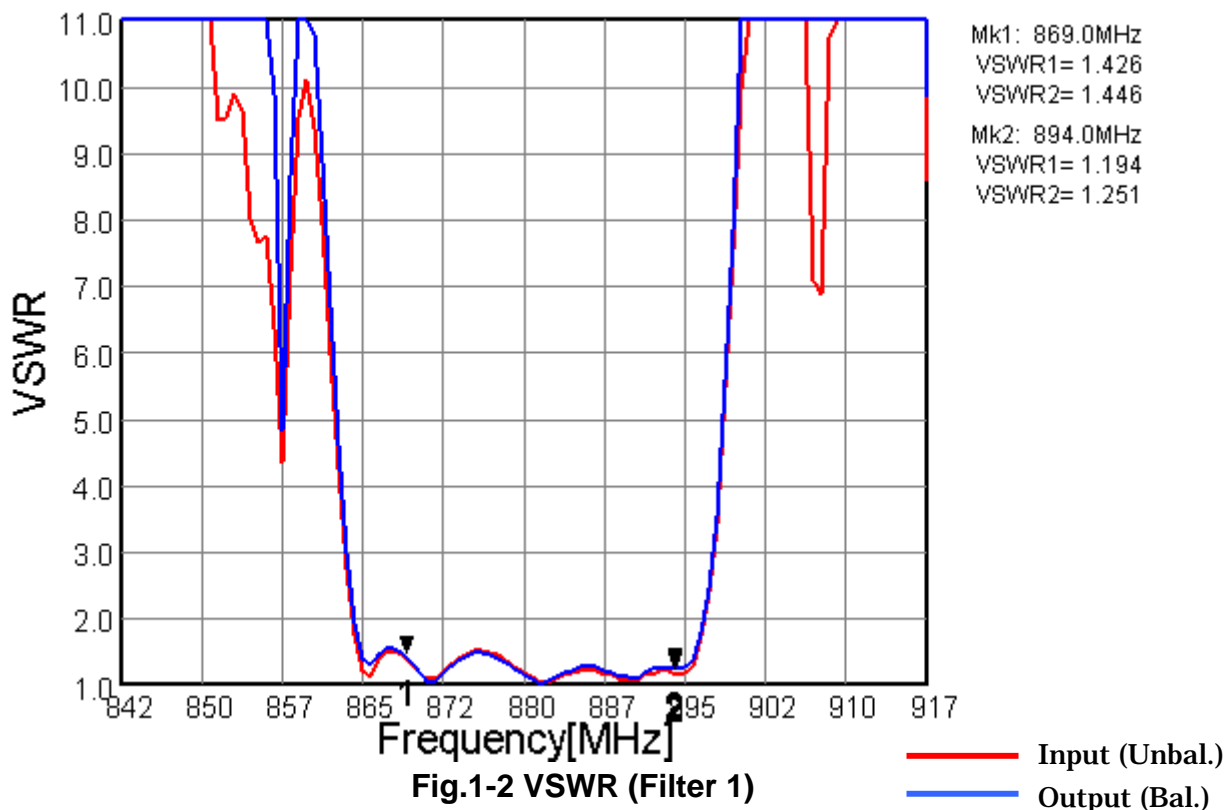


Fig.1-2 VSWR (Filter 1)

— Input (Unbal.)
— Output (Bal.)

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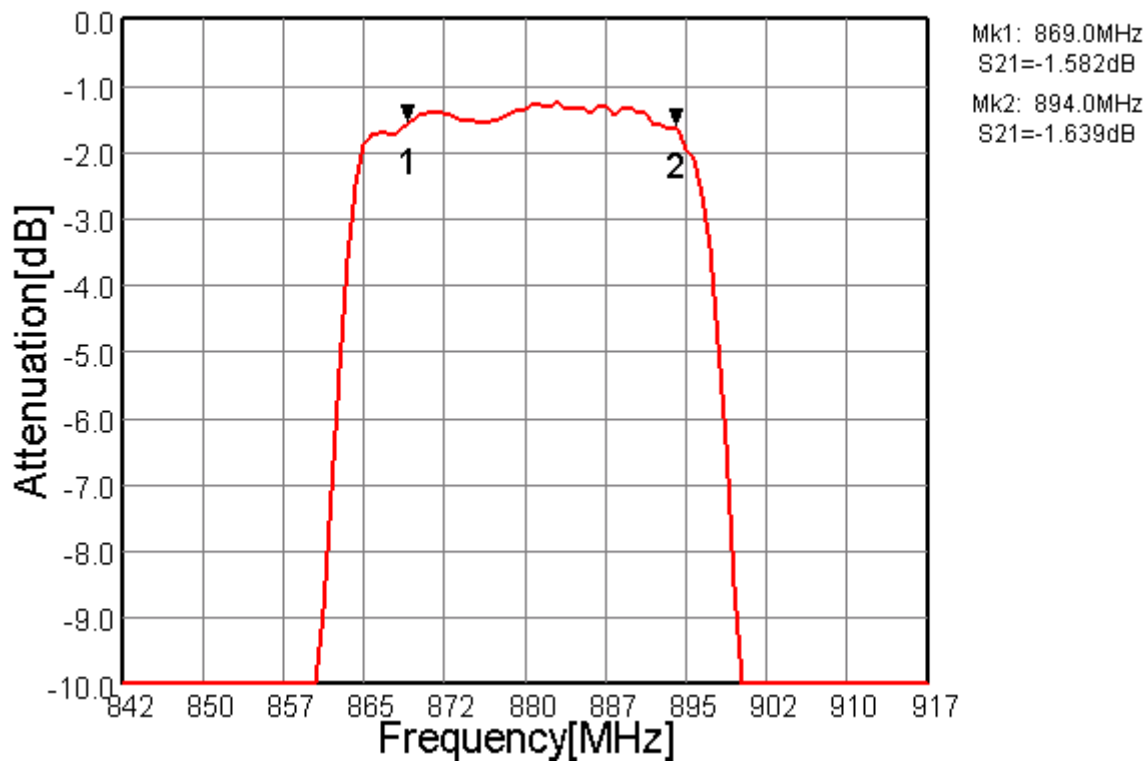


Fig.1-3 In-band Characteristics (Filter 1)

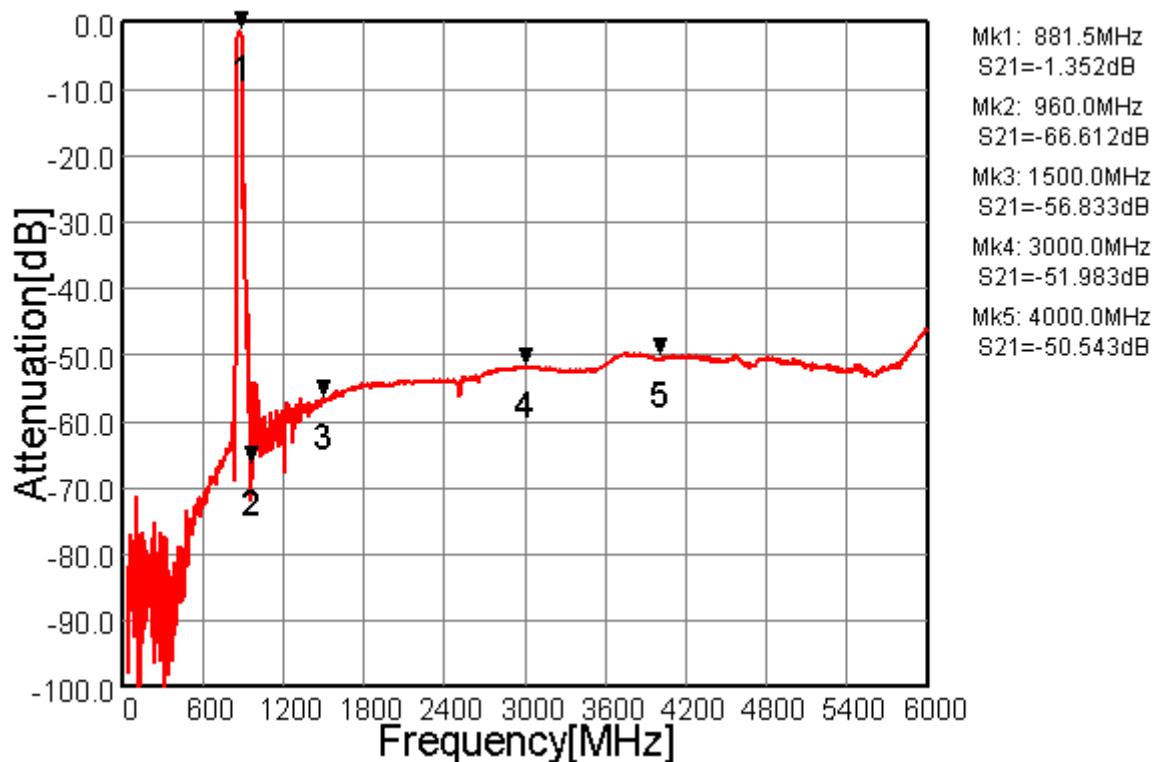


Fig.1-4 Wide-band Characteristics (Filter 1)

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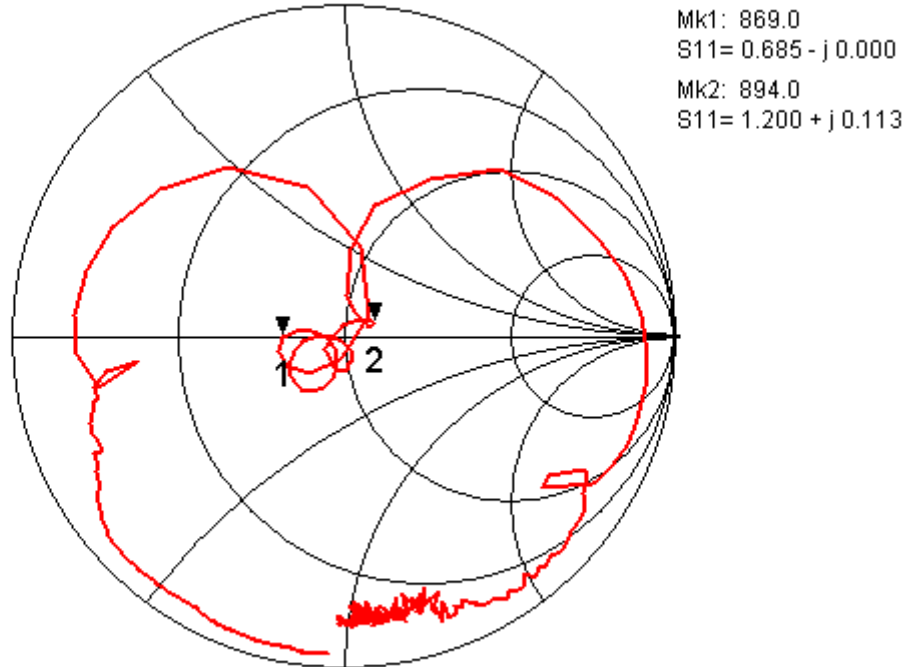


Fig.1-5 Impedance S11 (Filter 1)

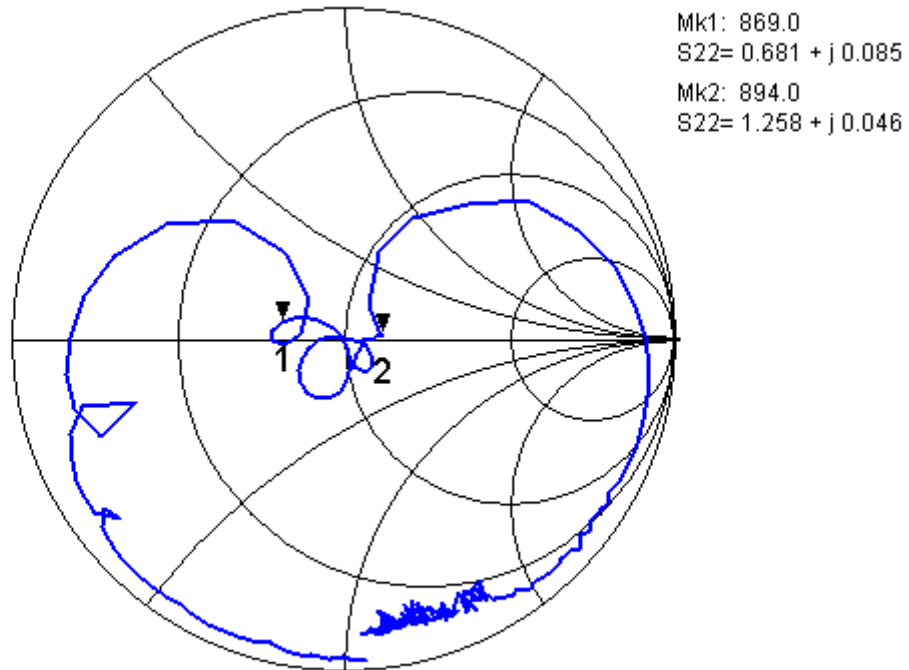


Fig.1-6 Impedance S22 (Filter 1)

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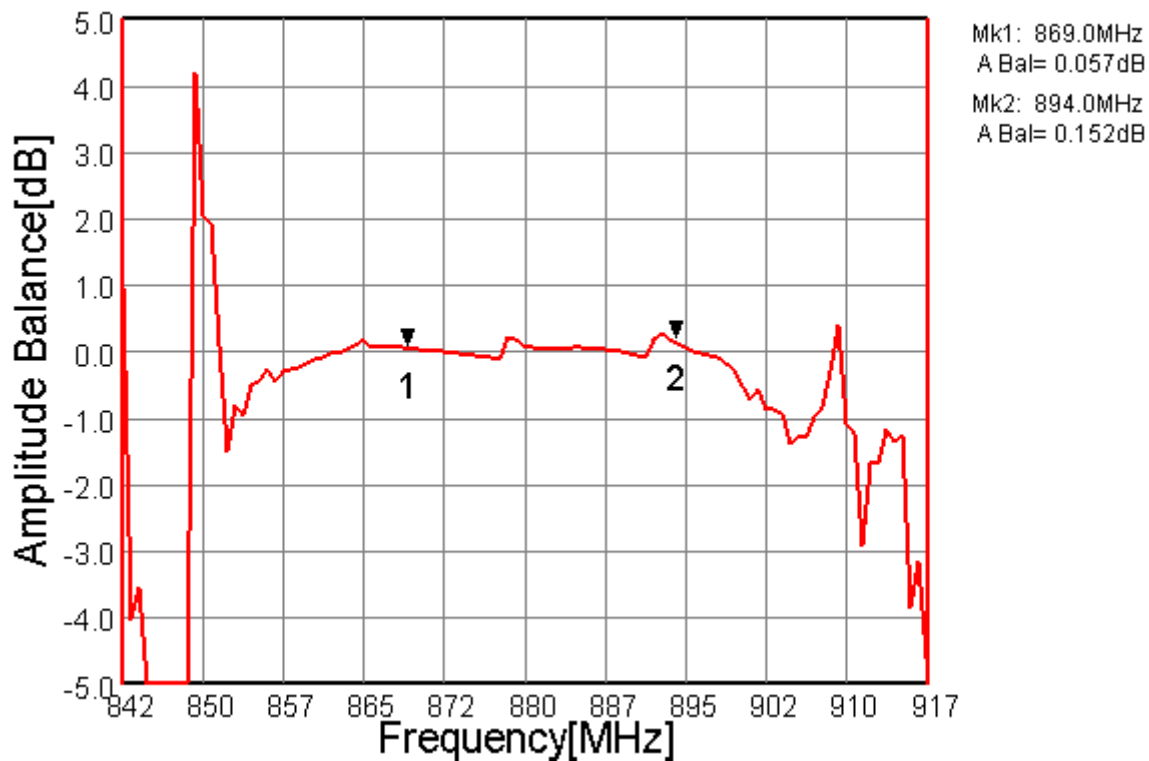


Fig.1-7 Amplitude Balance (Filter 1)

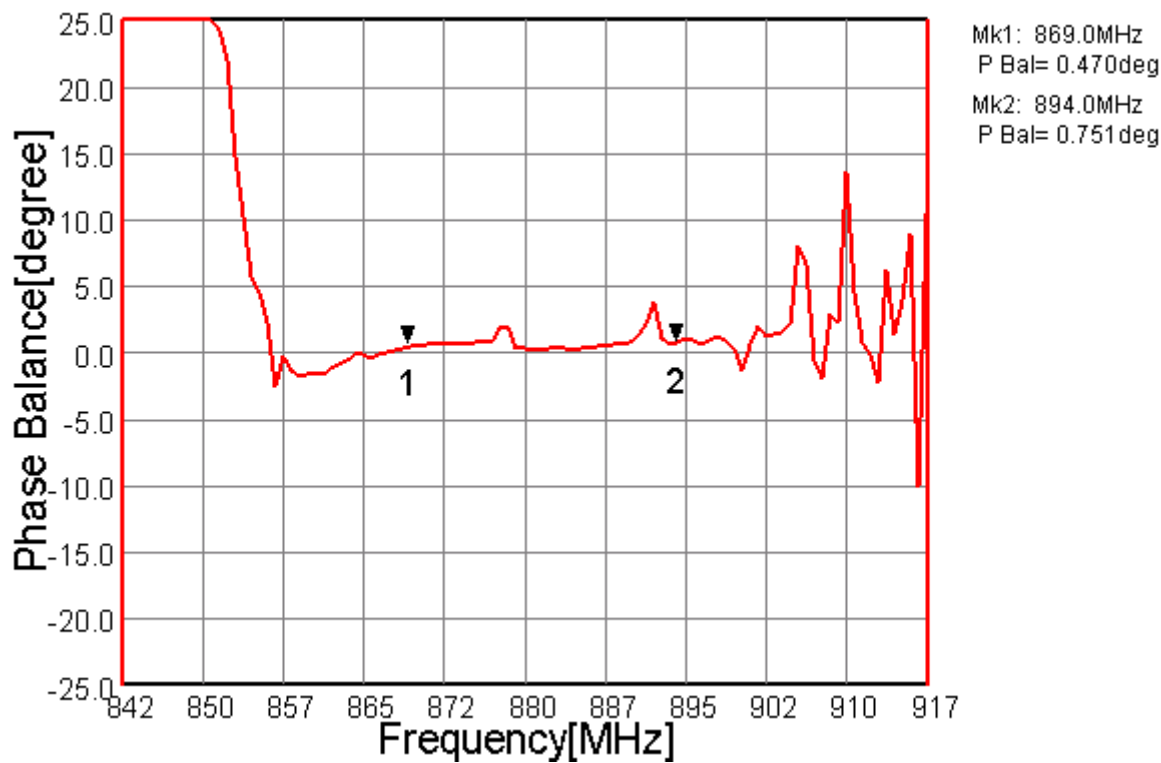


Fig.1-8 Phase Balance (Filter 1)

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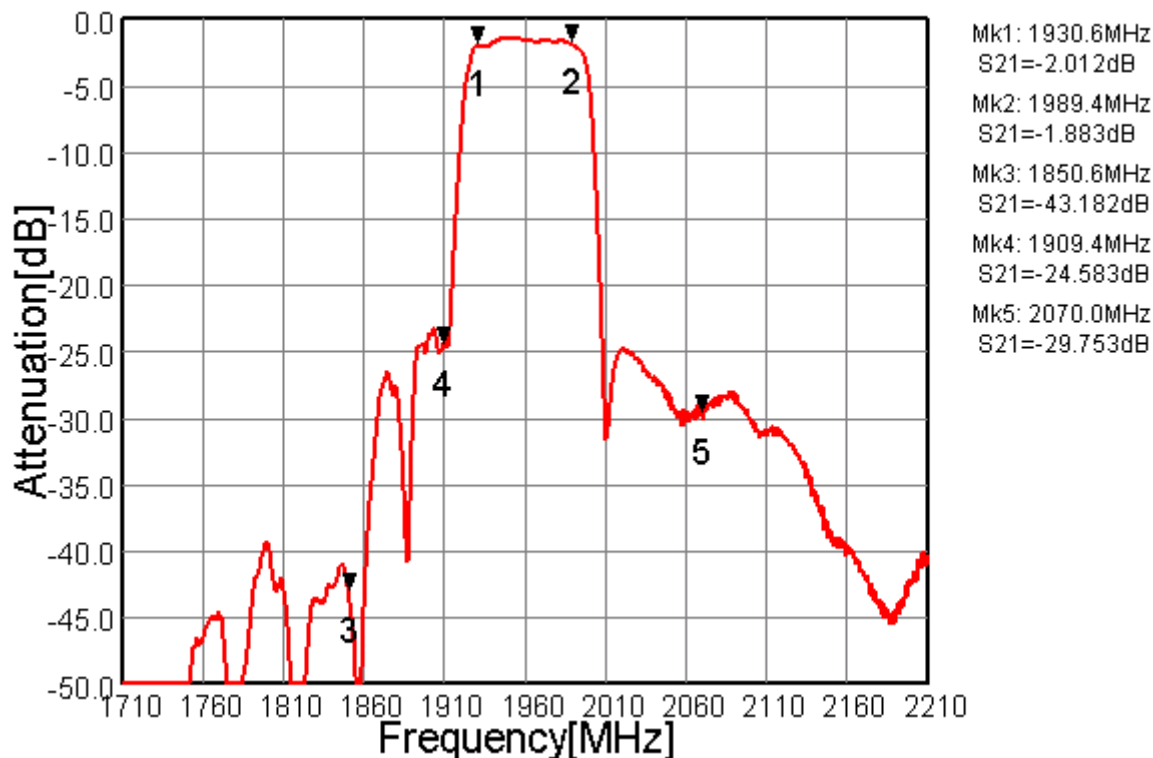


Fig.2-1 Pass-band Characteristics (Filter 2)

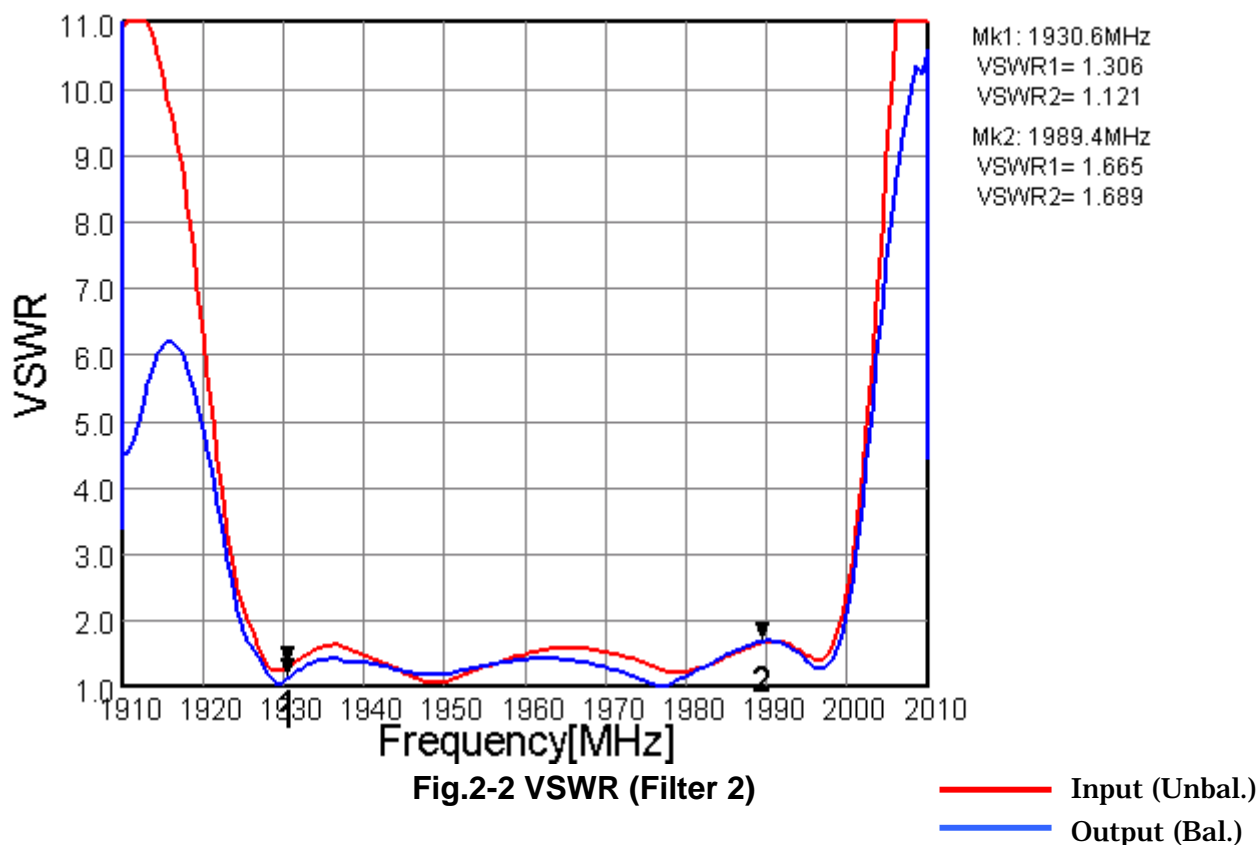


Fig.2-2 VSWR (Filter 2)

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
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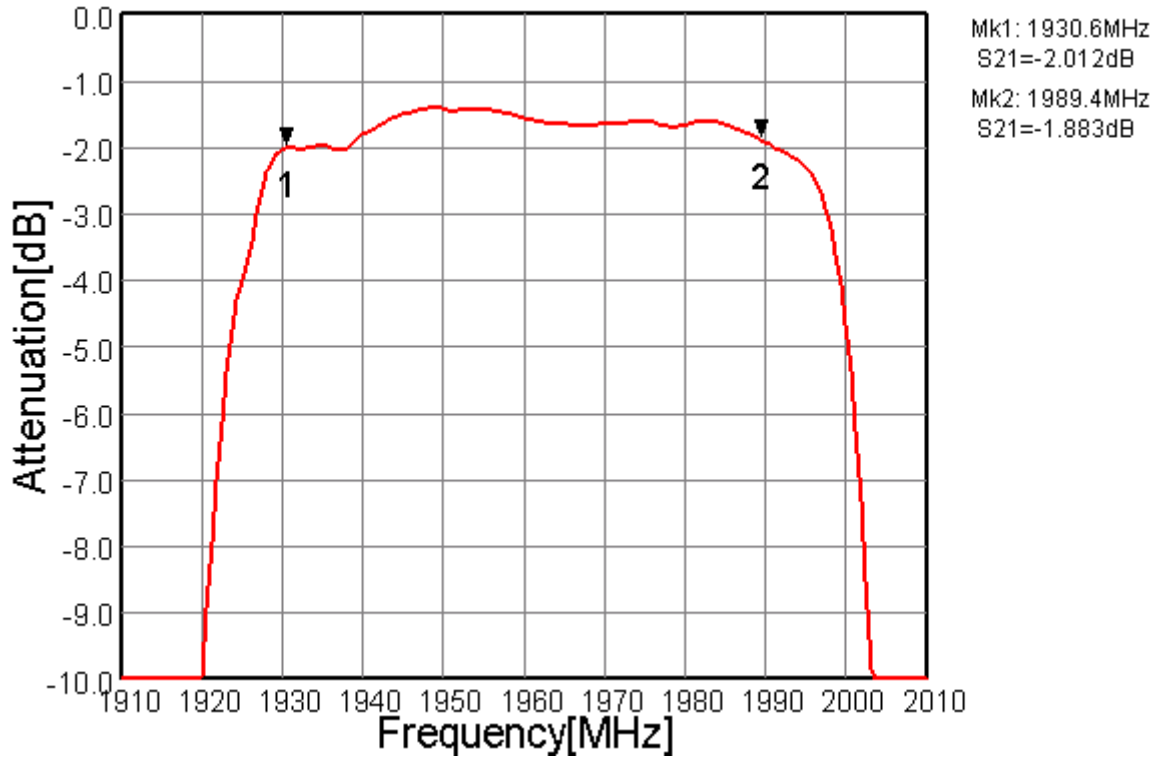


Fig.2-3 In-band Characteristics (Filter 2)

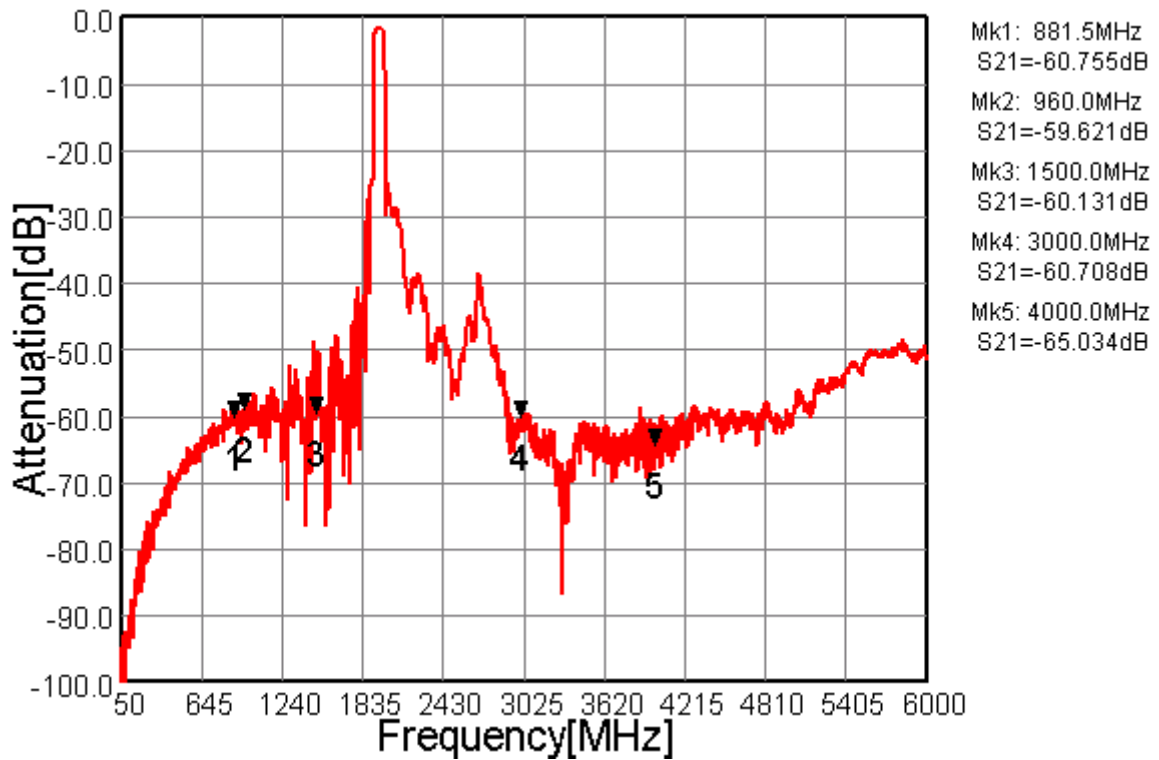


Fig.2-4 Wide-band Characteristics (Filter 2)

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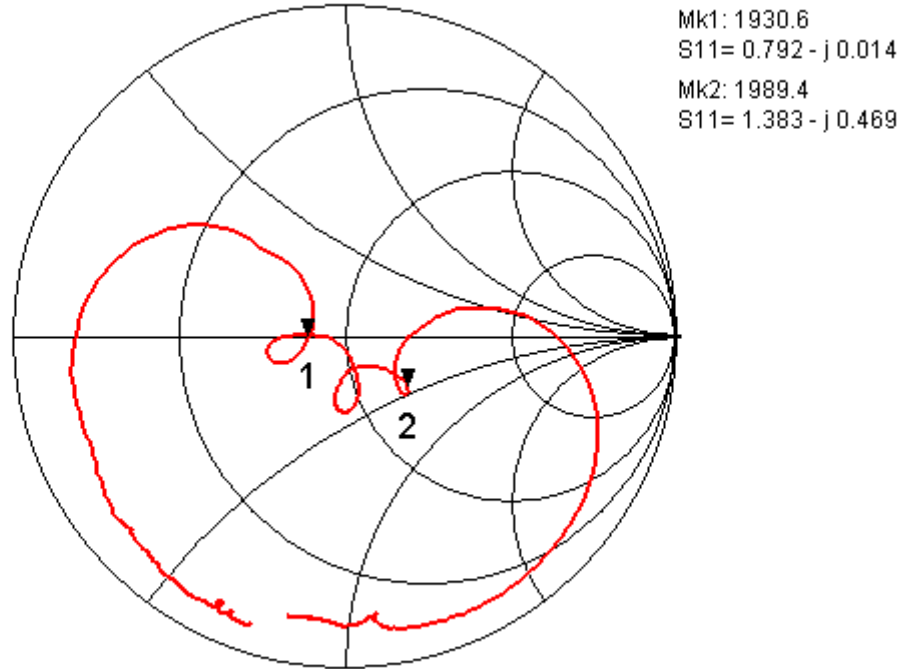


Fig.2-5 Impedance S11 (Filter 2)

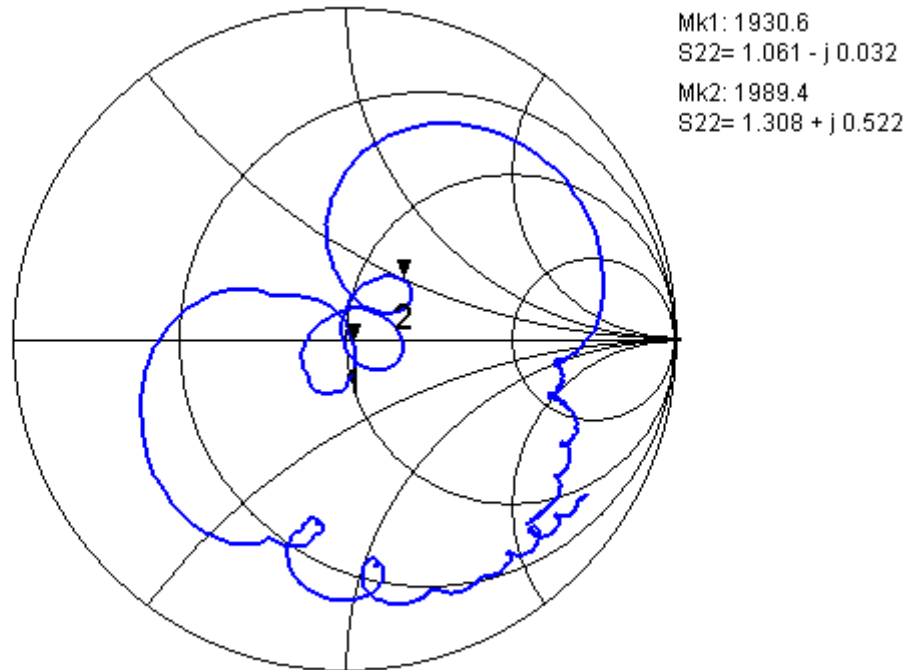


Fig.2-6 Impedance S22 (Filter 2)

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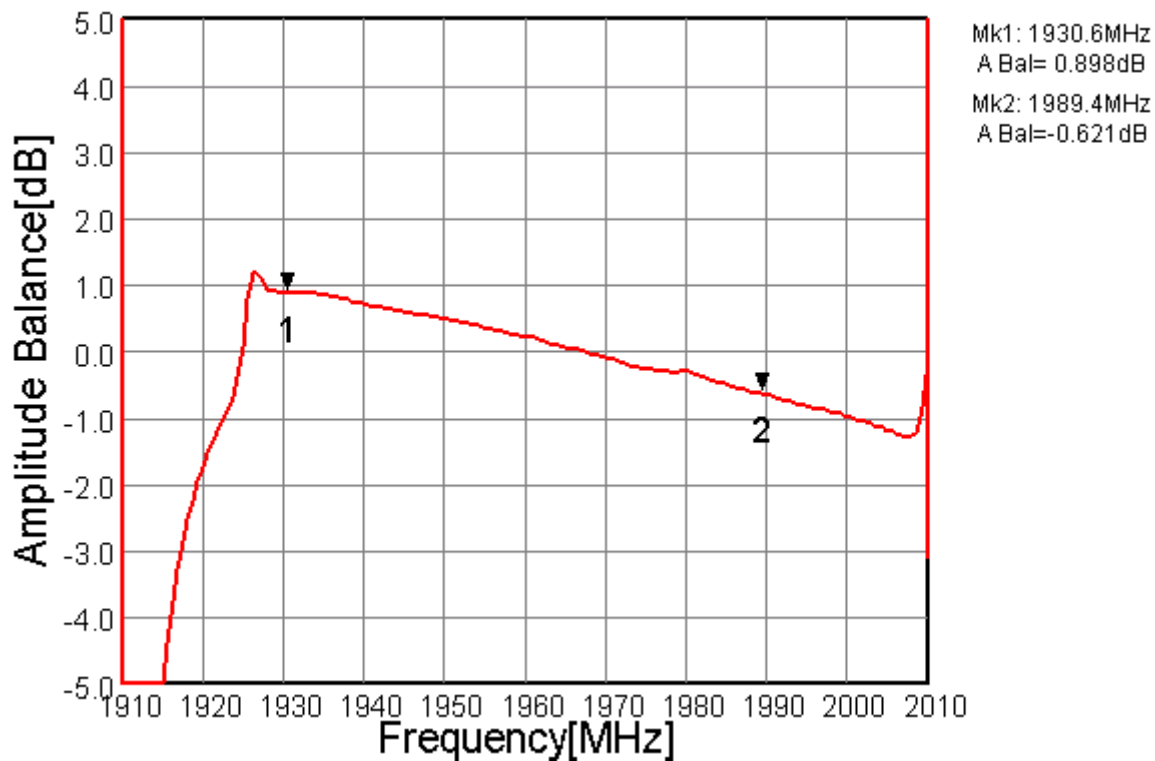


Fig.2-7 Amplitude Balance (Filter 2)

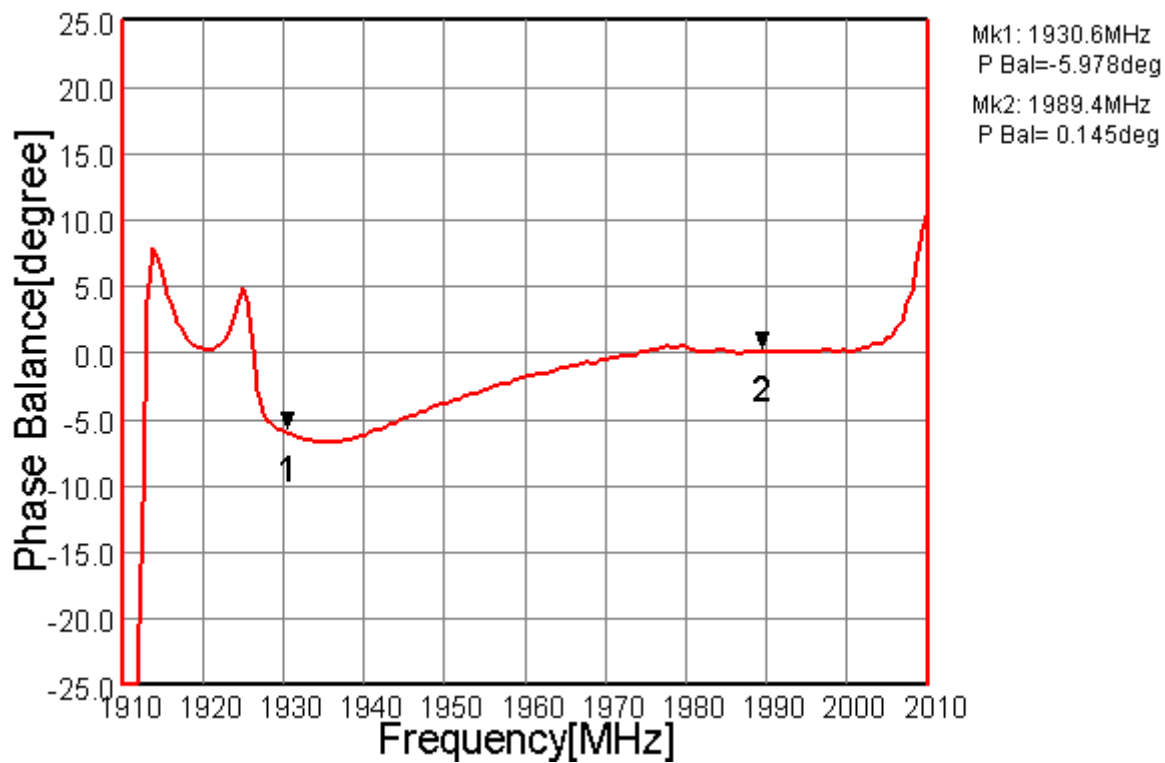


Fig.2-8 Phase Balance (Filter 2)