

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
System	EGSM/DCS dual balanced filter	DATE	July 3, 2003
FMD Part Number	FAR-G6EE-1G8425-Y2FQ	Version 1.0cd	
Customer No.		Reference No.	

Table 1-1 Electrical Specification

Filter 1:DCS-Rx(Passband : 1805 ~ 1880 MHz)						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	1805 ~ 1880	-	2.1	3.3	dB	
Ripple	1805 ~ 1880	-	1.0	2.0	dB	
Absolute attenuation	DC ~ 1300	32	44	-	dB	
	1300 ~ 1705	26	34	-	dB	
	1705 ~ 1785	14	20	-	dB	+25°C
		10	-	-	dB	
	1920 ~ 1980	14	23	-	dB	
	1980 ~ 2500	25	30	-	dB	
	2500 ~ 3840	24	32	-	dB	
	3840 ~ 6000	25	40	-	dB	
VSWR	1805 ~ 1880	-	2.2	2.8	-	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	150//12nH			ohm	
Operating temperature		-30 ~ +85			°C	

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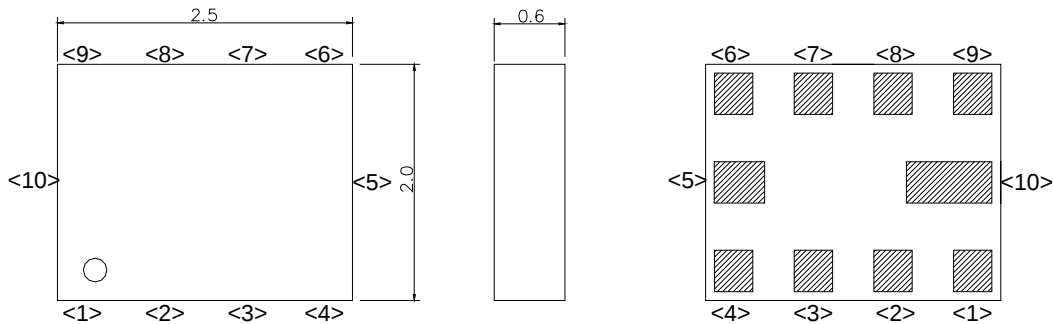
Table 1-2 Electrical Specification

Filter 2:EGSM-Rx(Passband : 925 ~ 960 MHz)						
Item	Condition (MHz)	Specification			Unit	Remark
		Min.	Typ.	Max.		
Insertion Loss	925 ~ 960	-	2.0	2.7	dB	
Ripple	925 ~ 960	-	0.8	1.7	dB	
Absolute attenuation	DC ~ 880	48	60	-	dB	
	880 ~ 905	30	40	-	dB	
	905 ~ 915	16	-	-	dB	
	980 ~ 1025	25	30	-	dB	
	1025 ~ 2880	40	49	-	dB	
	2880 ~ 6000	20	28	-	dB	
VSWR	925 ~ 960	-	1.9	2.2	-	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	150//68nH			ohm	
Operating temperature		-30 ~ +85			°C	

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Dimensions

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



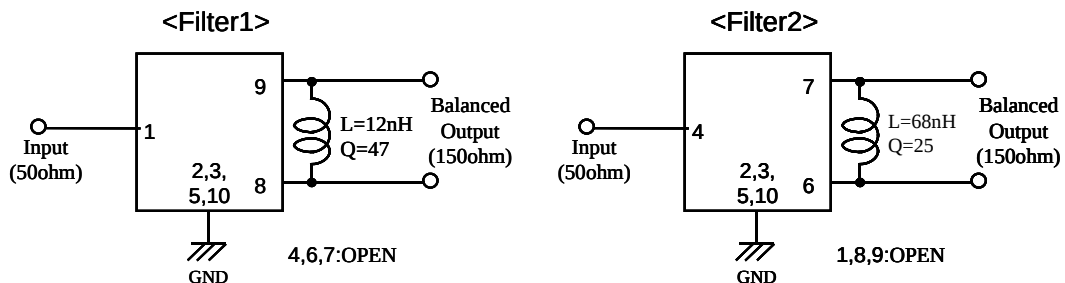
Unit : mm

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	1805 ~ 1880	DCS-Rx
2	925 ~ 960	EGSM-Rx

Test Condition



1~10 : Pin No.

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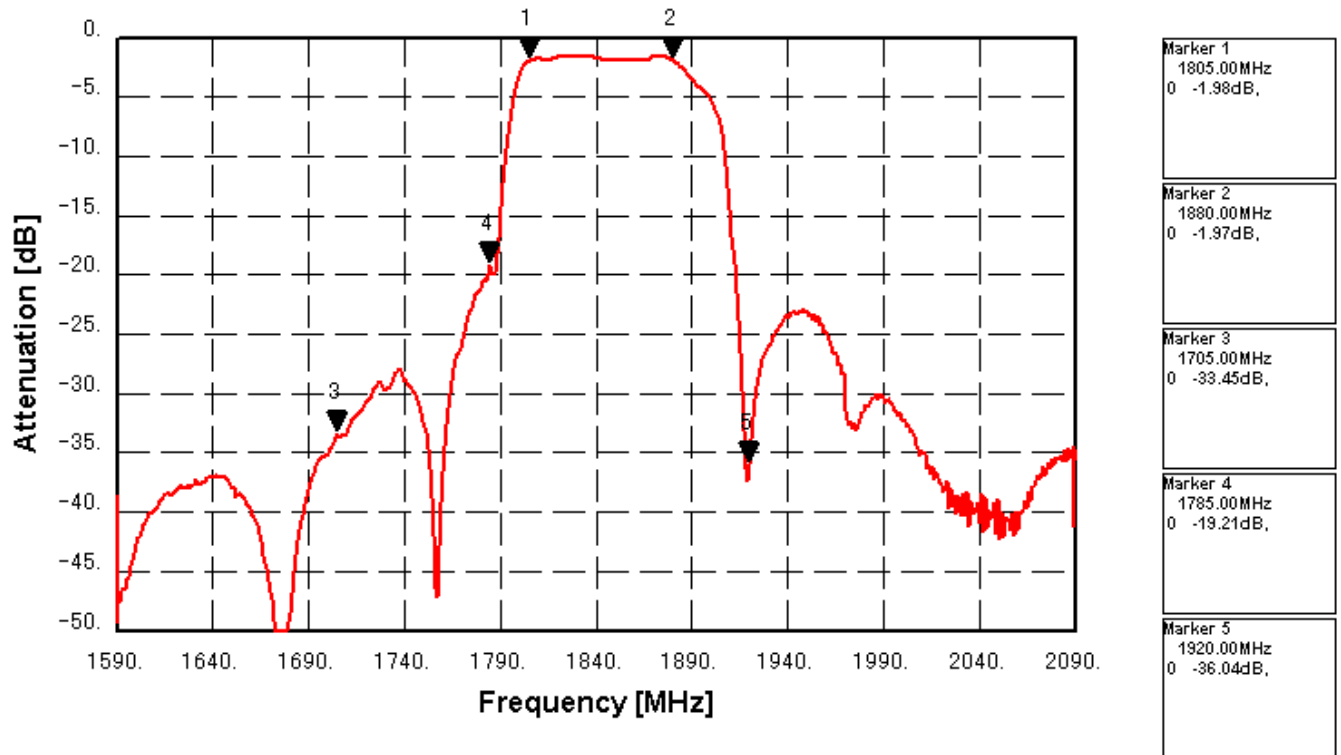
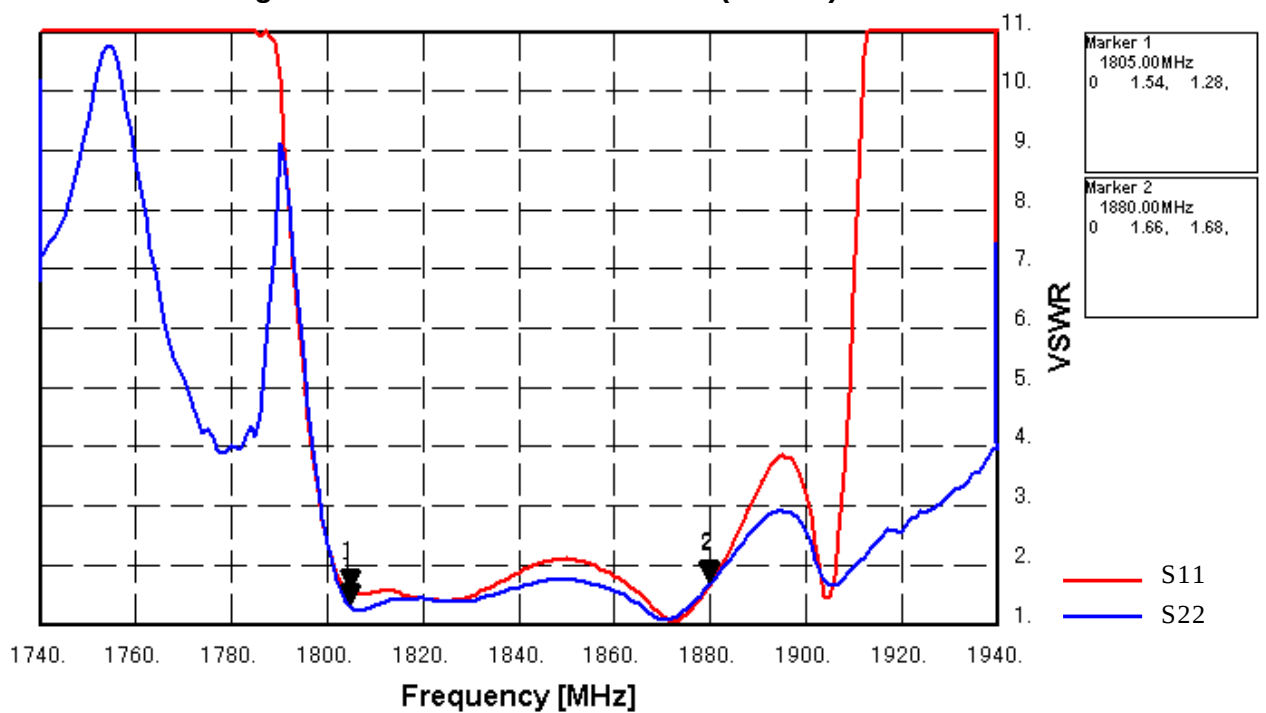


Fig.1-1 Pass-band Characteristics (Filter 1)



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Fig.1-2 VSWR (Filter 1)

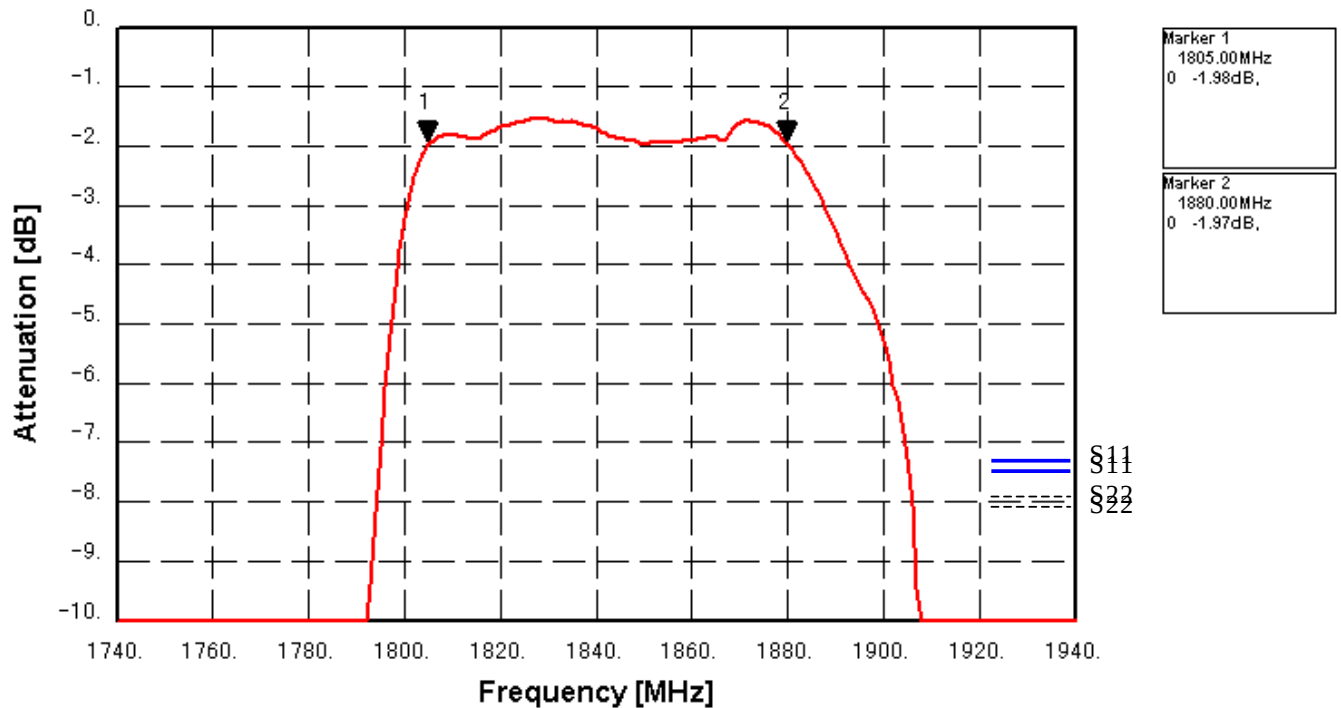
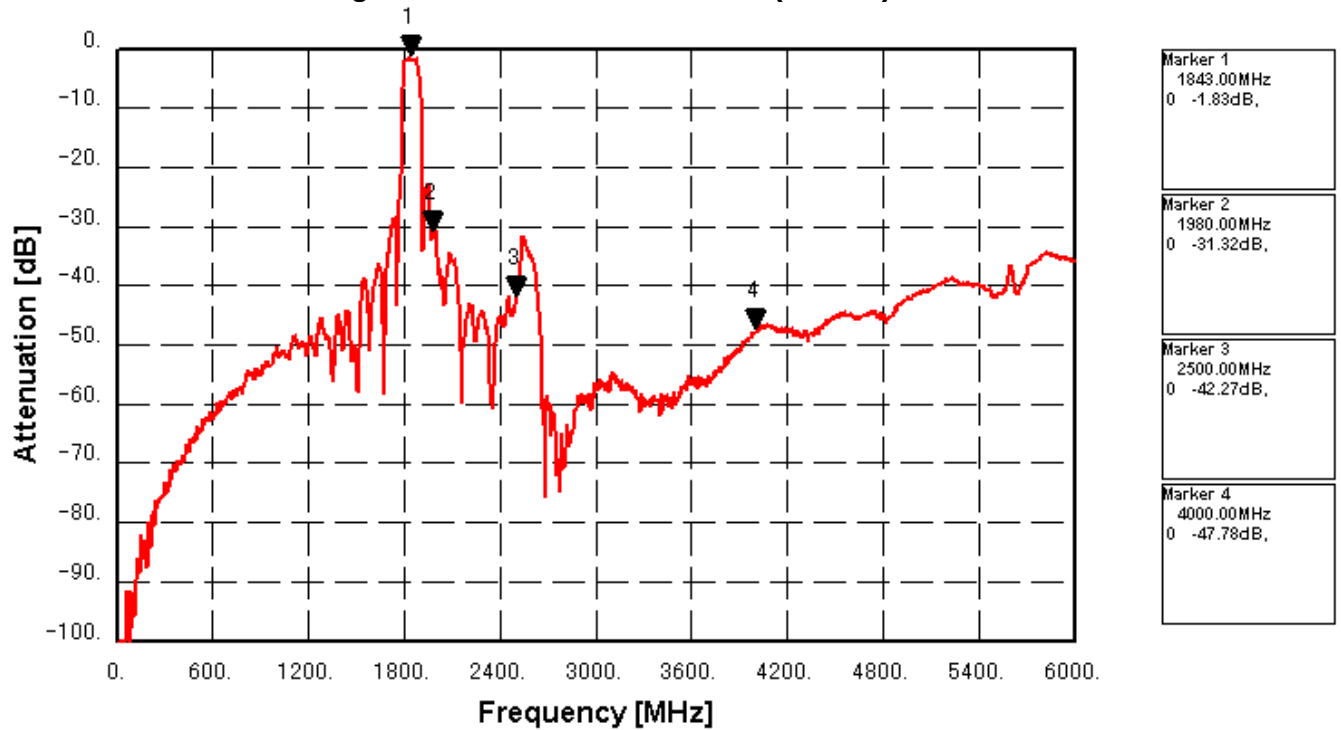


Fig.1-3 In-band Characteristics (Filter 1)



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

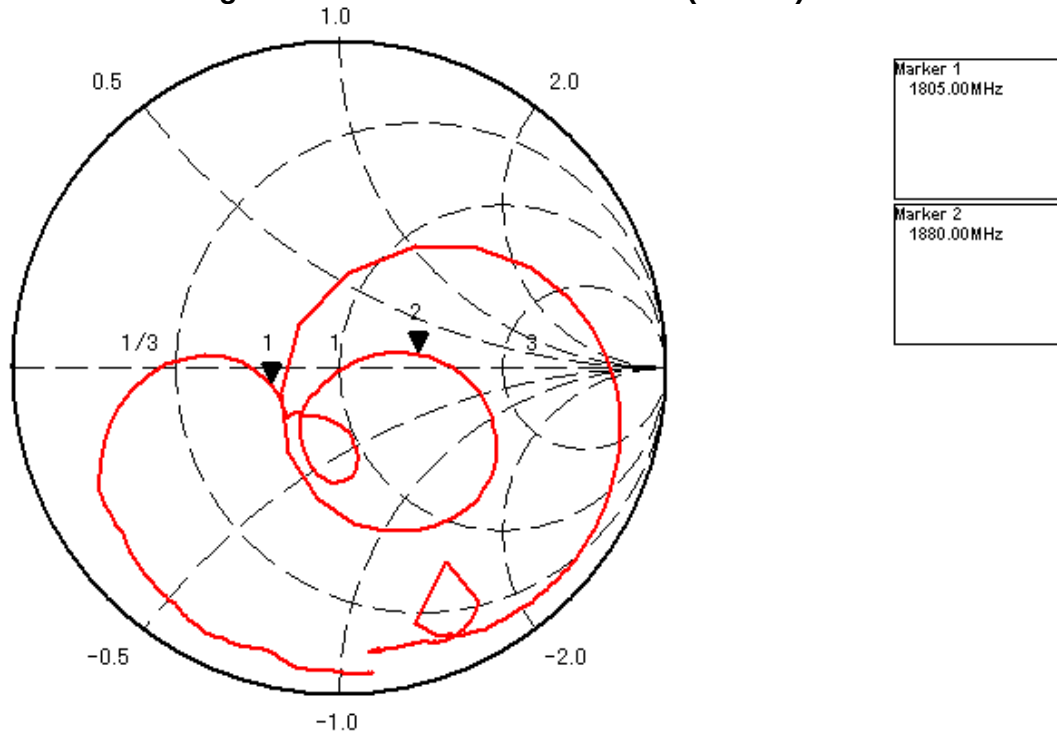
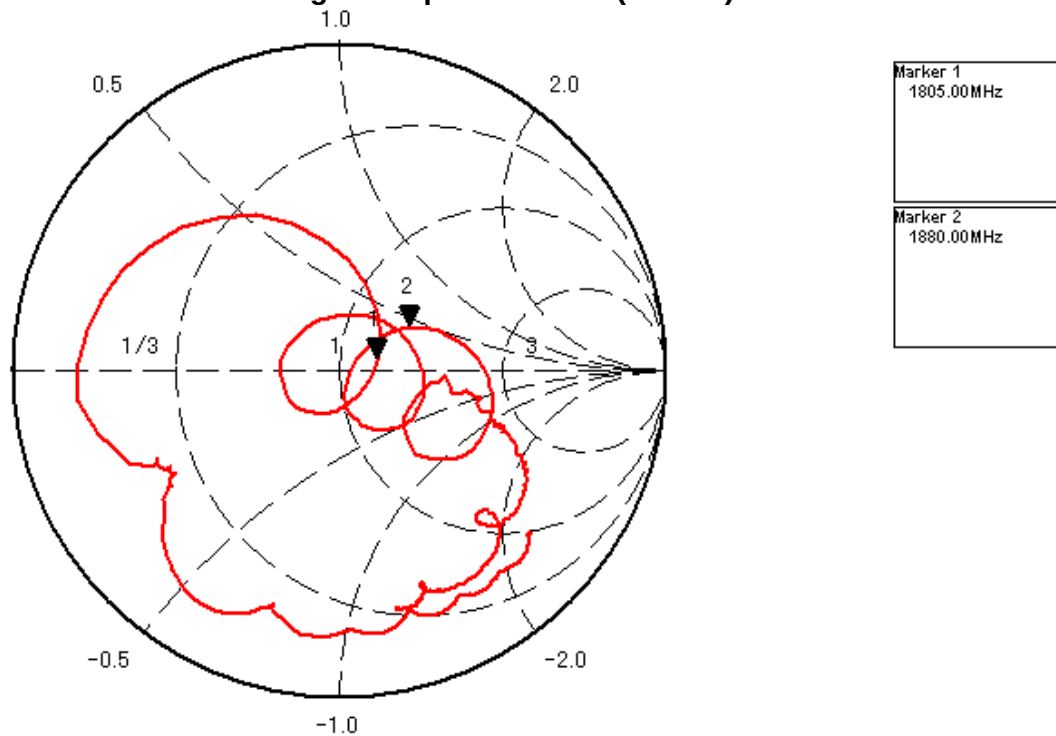


Fig.1-5 Impedance S11 (Filter 1)



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Fig.1-6 Impedance S22 (Filter 1)

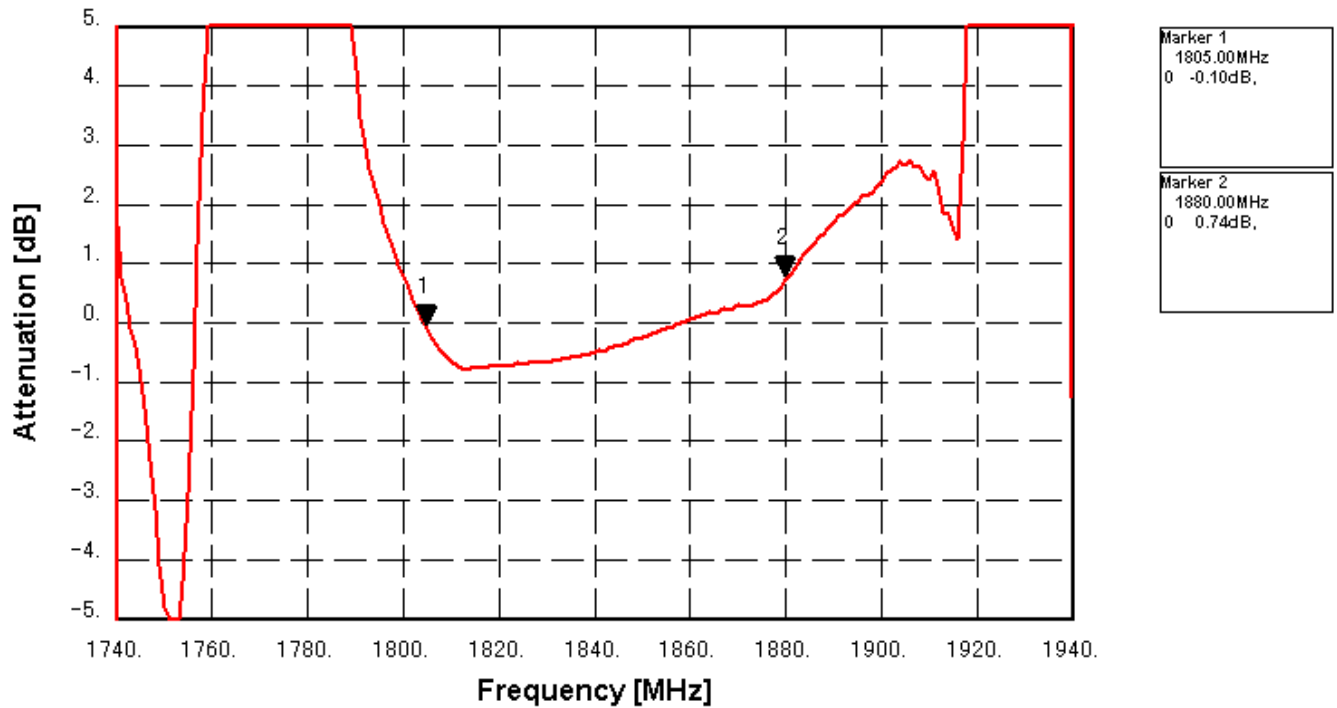
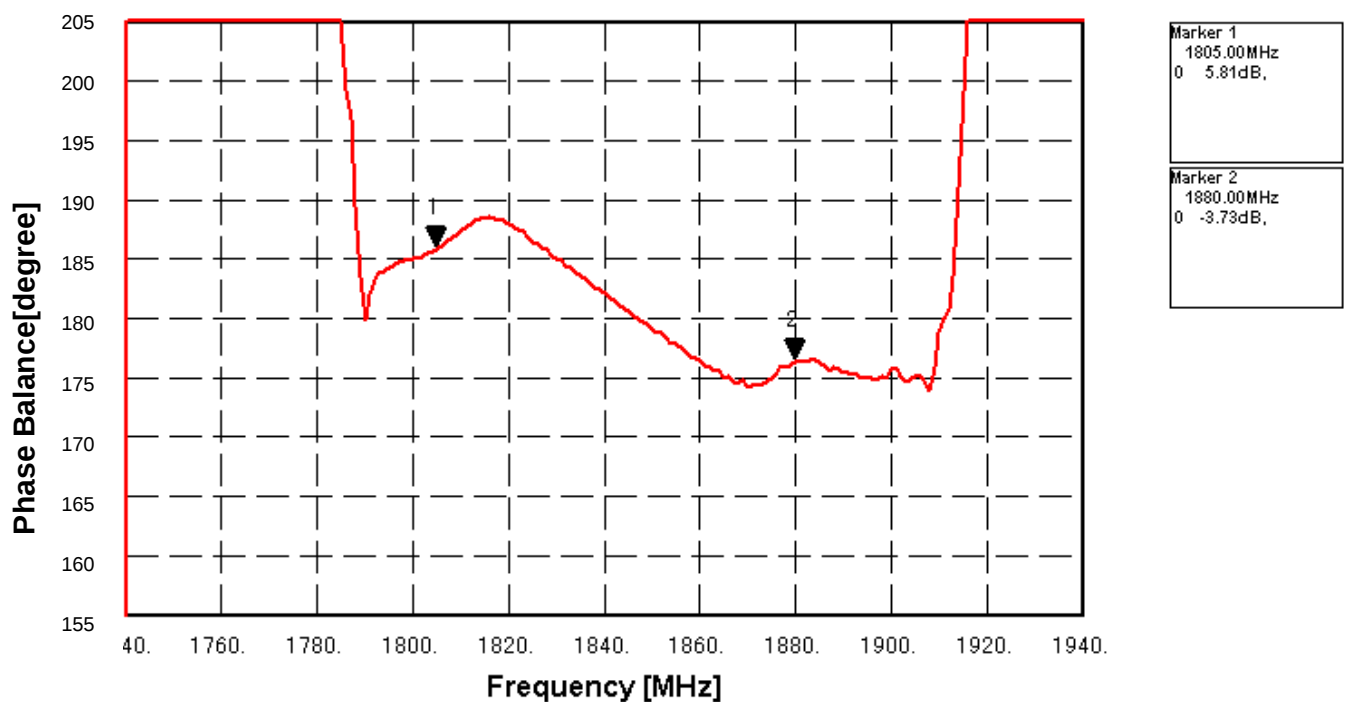


Fig.1-7 Amplitude Balance (Filter 1)



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Fig.1-8 Phase Balance (Filter 1)

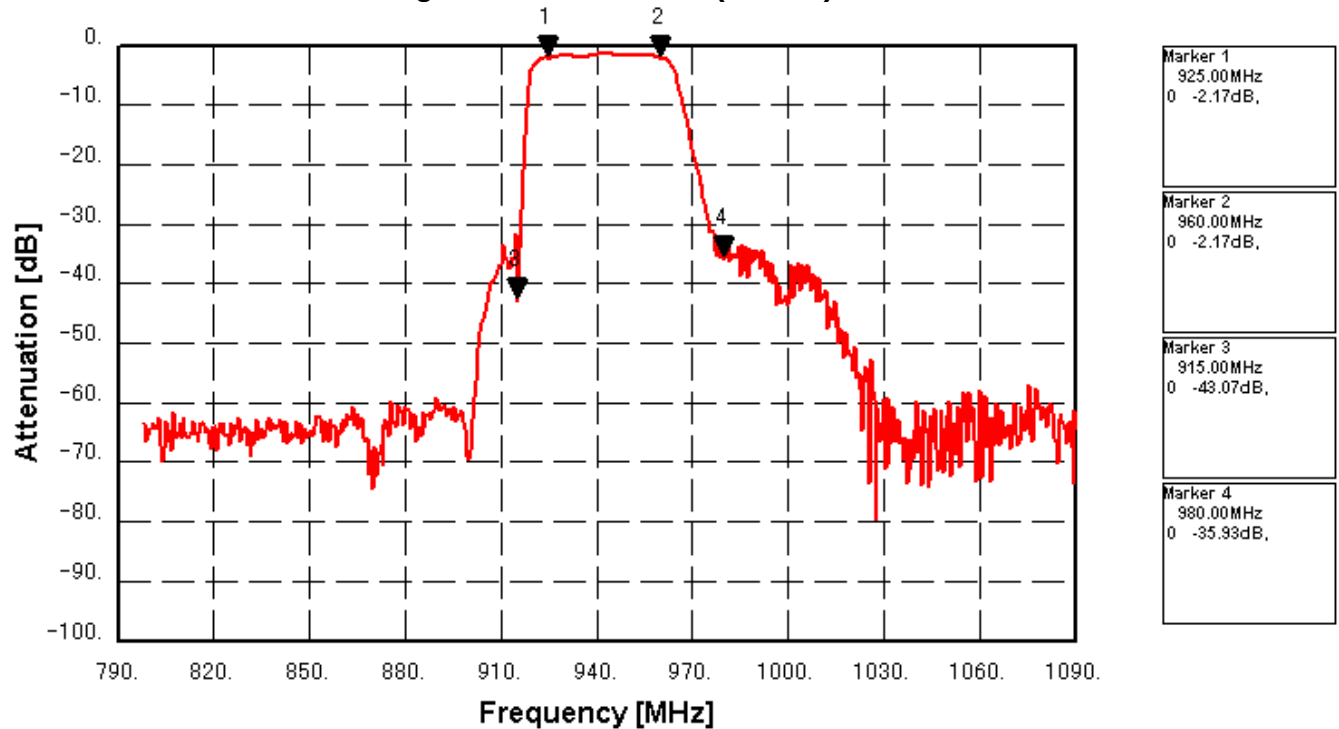


Fig.2-1 Pass-band Characteristics (Filter 2)

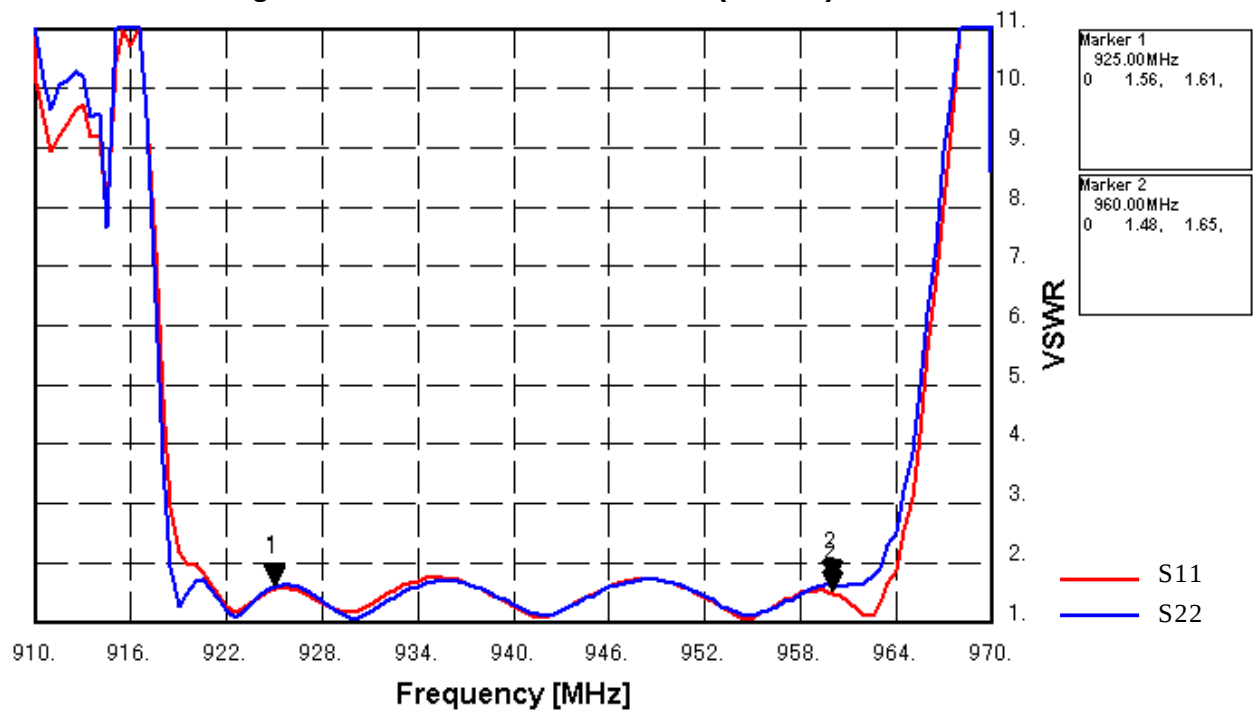


Fig.2-2 VSWR (Filter 2)

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
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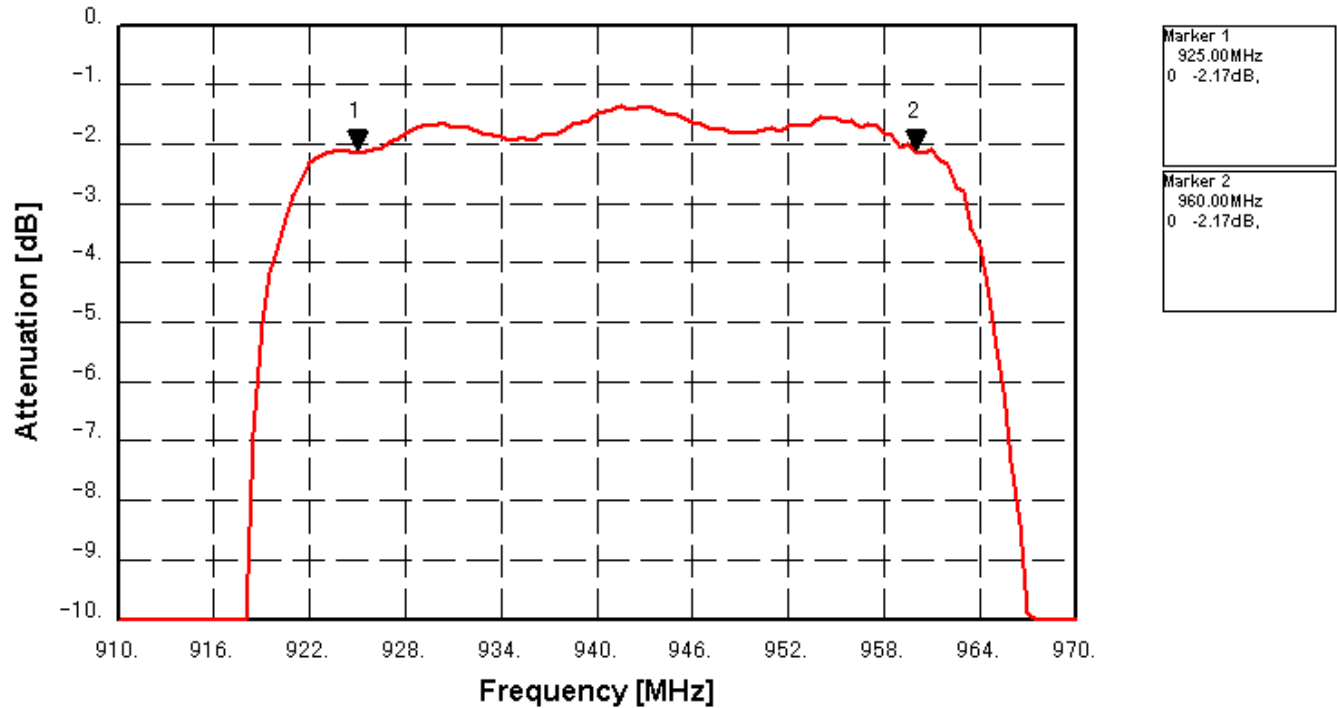


Fig.2-3 In-band Characteristics (Filter 2)

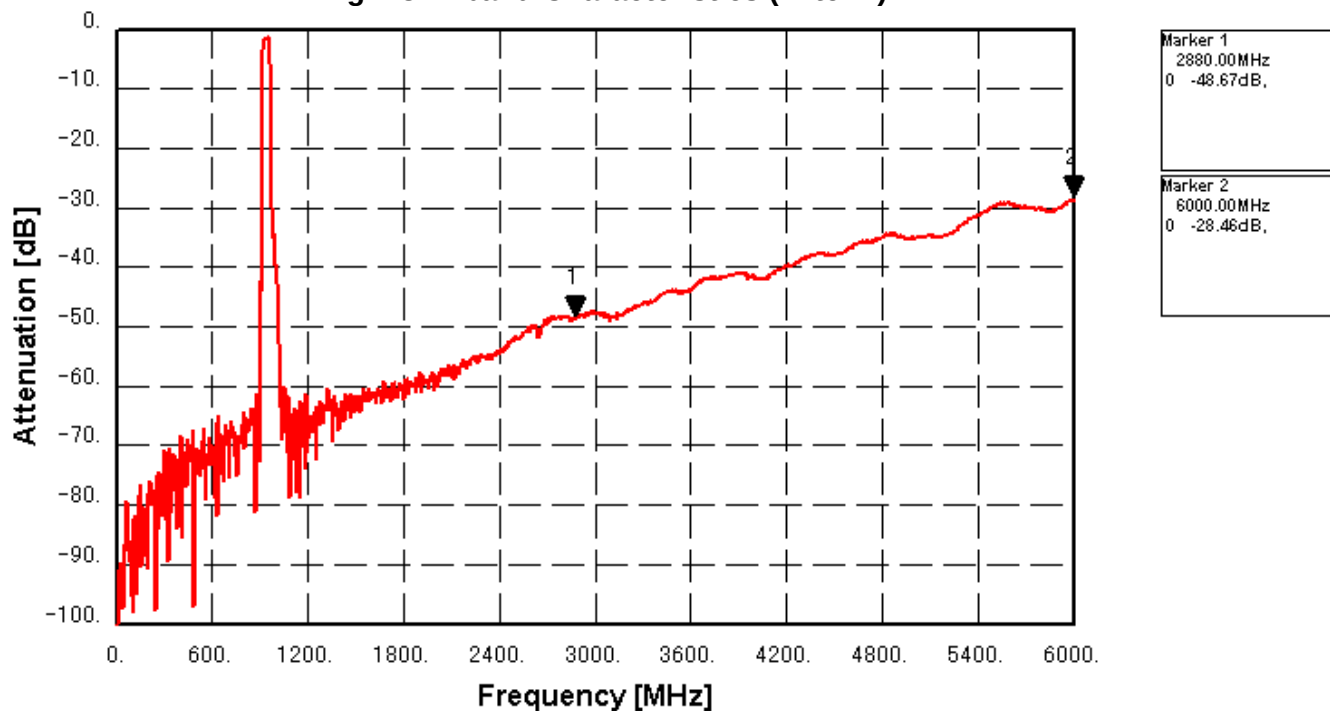


Fig.2-4 Wide-band Characteristics (Filter 2)

Customer Name	Standard Specification	FUJITSU MEDIA DEVICES LIMITED	
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Customer No.		Reference No.	

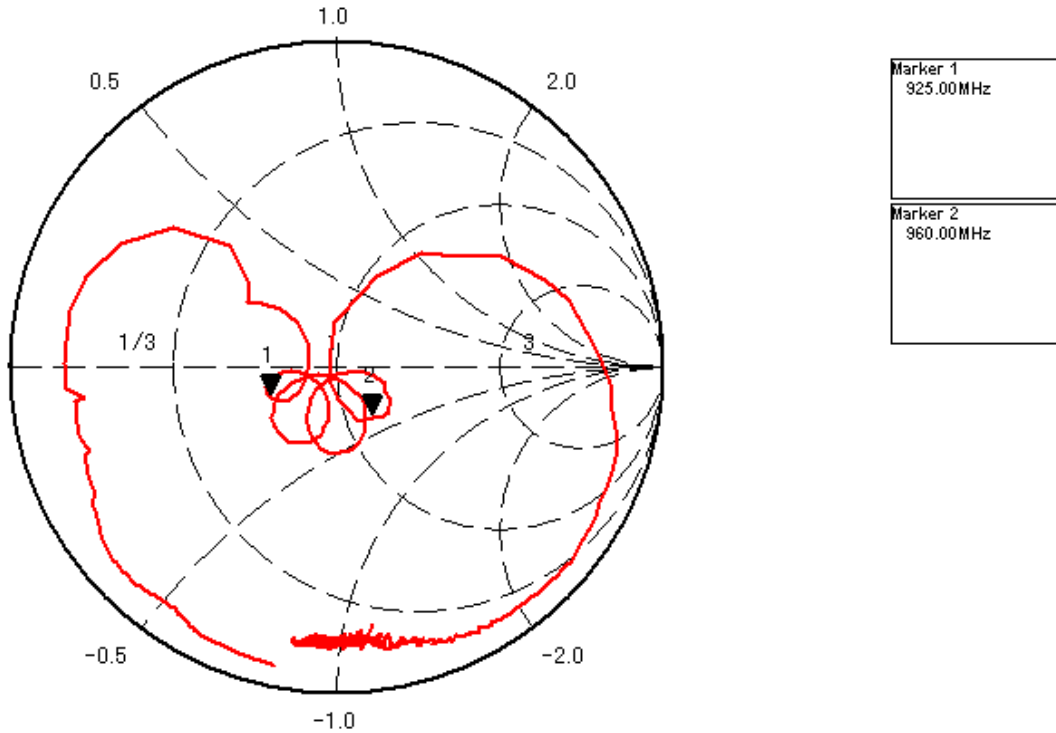


Fig.2-5 Impedance S11 (Filter 2)

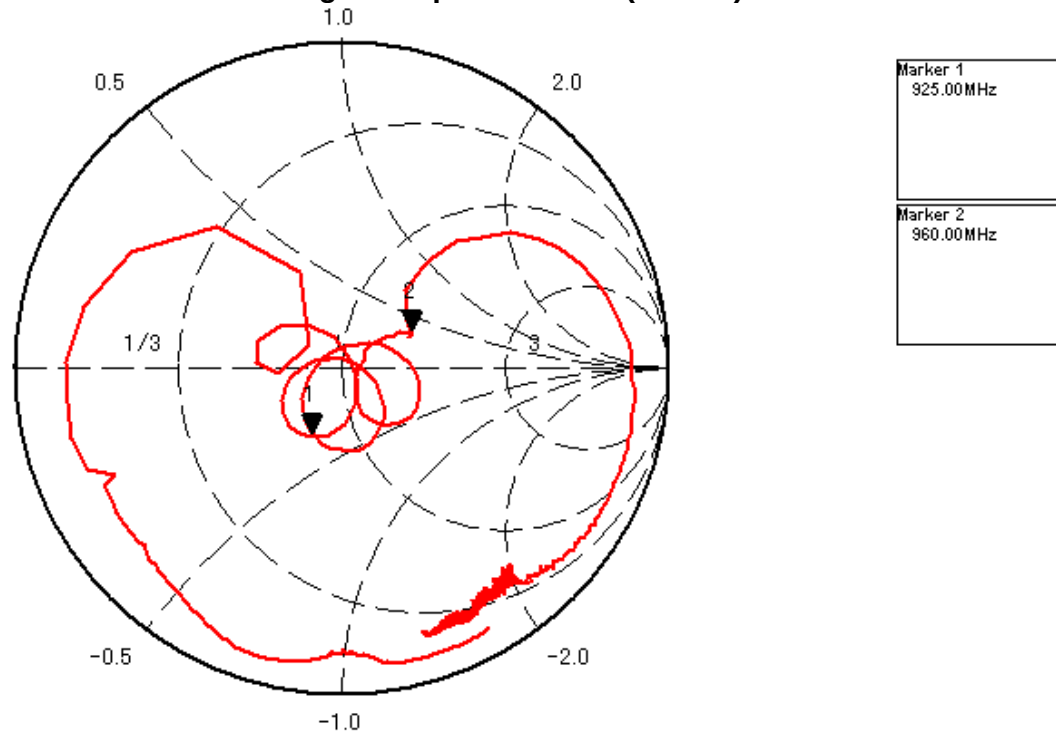


Fig.2-6 Impedance S22 (Filter 2)

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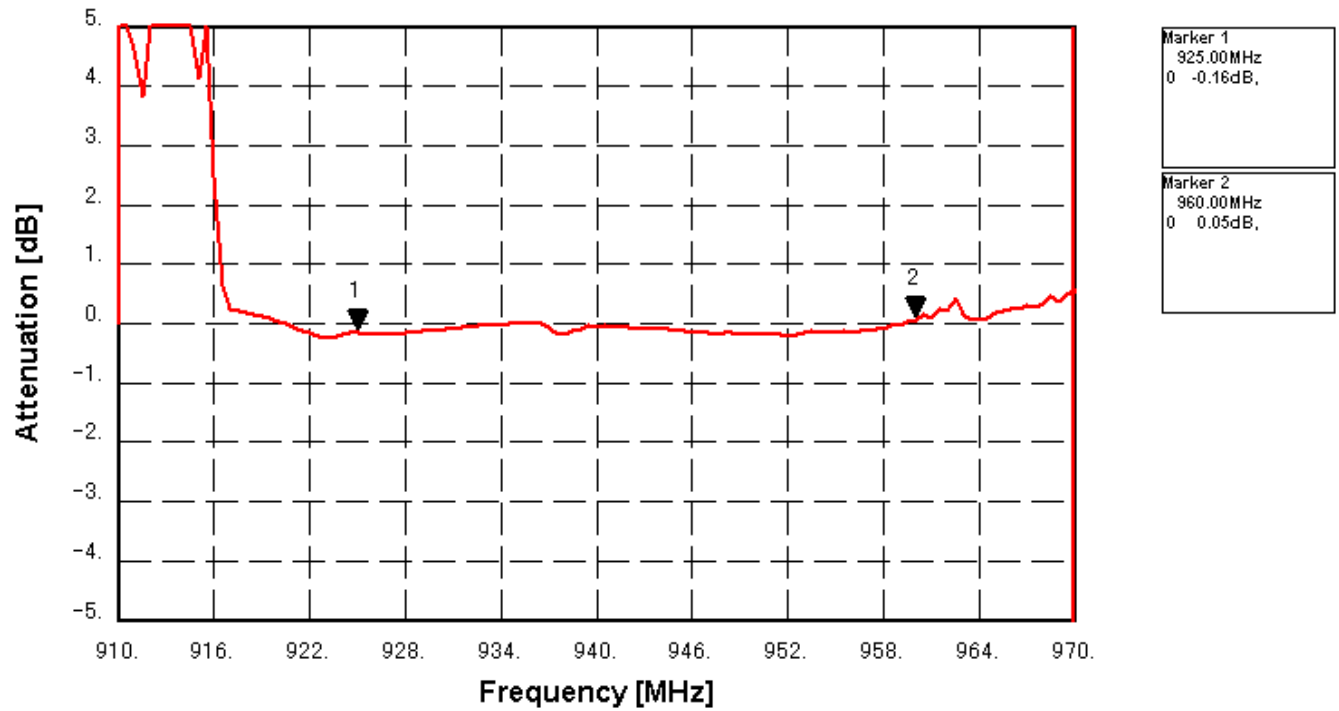


Fig.2-7 Amplitude Balance (Filter 2)

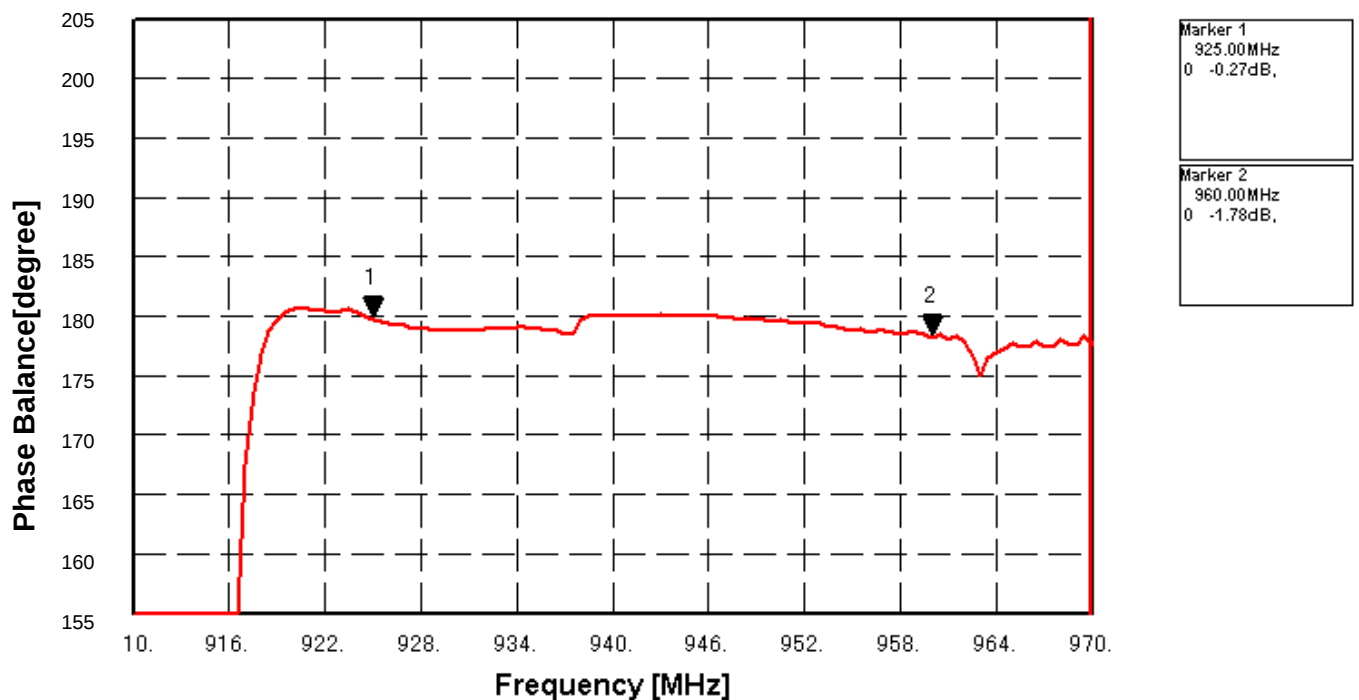


Fig.2-8 Phase Balance(Filter 2)