Customer Name	**Standard specification**	FUJITSU MEDIA DEVICES LIMITED	
Application	IF Filter for Digital Terrestrial TV (Switchable)		
Center Frequency	36.00 MHz	DATE	Jun. 30 2003
FMD Part Number	SBSF03ABPL	Version 1.3	

Table 1-1 Electrical Specification (Ta=25°C)

Channel 1 (BW=7MHz) Pin No.1&2=INPUT Pin No.3=GROUND

Items	Conditions	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Center frequency		–	36.000	–	MHz	
Insertion Loss	36.000 MHz	20.0	21.5	23.0	dB	
Pass bandwidth	1 dB	–	6.5	–	MHz	
	3 dB	–	7.0	–	MHz	
	30 dB	–	8.6	–	MHz	
Relative level	31.750 MHz	–	-26	-19	dB	
	32.500 MHz	- 4.5	- 2.9	–	dB	
	32.700 MHz	- 2.2	- 1.2	–	dB	
	36.000 MHz	–	0	–	dB	Reference
	39.300 MHz	- 2.2	- 1.1	–	dB	
	39.500 MHz	- 4.5	- 3.0	–	dB	
	40.400 MHz	–	-34	-25	dB	
	46.750 MHz	–	-48	-33	dB	
	25.000 ~ 30.000 MHz	–	-38	-33	dB	
	42.000 ~ 50.000 MHz	–	-36	-30	dB	
Amplitude ripple (p-p)	33.000 ~ 39.000 MHz	–	0.5	1.0	dB	
Group delay ripple (p-p)	32.500 ~ 39.500 MHz	–	44	80	ns	
Input Capacitance	C_{in1} (1.0 MHz)	–	19.0	–	pF	
Output Capacitance	C_{out} (1.0 MHz)	–	4.3	–	pF	
Temperature coefficient		–	-72	–	ppm/°C	

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Table 1-2 Electrical Specification (Ta=25°C)

Channel 2 (BW=8MHz) Pin No.1=INPUT Pin No.2&3=GROUND

Items	Conditions	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Center frequency		–	36.000	–	MHz	
Insertion Loss	36.000 MHz	20.0	21.5	23.0	dB	
Pass bandwidth	1 dB	–	7.4	–	MHz	
	3 dB	–	7.9	–	MHz	
	30 dB	–	9.5	–	MHz	
Relative level	31.250 MHz	–	-30	-23	dB	
	32.000 MHz	- 5.7	- 4.0	–	dB	
	32.200 MHz	- 2.8	- 1.6	–	dB	
	36.000 MHz	–	0(Ref.)	–	dB	
	39.800 MHz	- 2.8	- 1.5	–	dB	
	40.000 MHz	- 5.5	- 3.8	–	dB	
	40.900 MHz	–	-42	-30	dB	
	47.250 MHz	–	-50	-30	dB	
	25.000 ~ 30.000 MHz	–	-39	-34	dB	
	42.000 ~ 50.000 MHz	–	-34	-30	dB	
Amplitude ripple (p-p)	33.150 ~ 39.100 MHz	–	0.5	1.0	dB	
Group delay ripple (p-p)	32.650 ~ 39.600 MHz	–	40	80	ns	
Input Capacitance	C_{in2} (1.0 MHz)	–	22.6	–	pF	
Output Capacitance	C_{out} (1.0 MHz)	–	4.3	–	pF	
Temperature coefficient		–	-72	–	ppm/°C	

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Application	IF Filter for Digital Terrestrial TV (Switchable)		
Center Frequency	36.00 MHz	DATE	Jun. 30 2003
FMD Part Number	SBSF03ABPL	Version 1.3	

● Dimensions

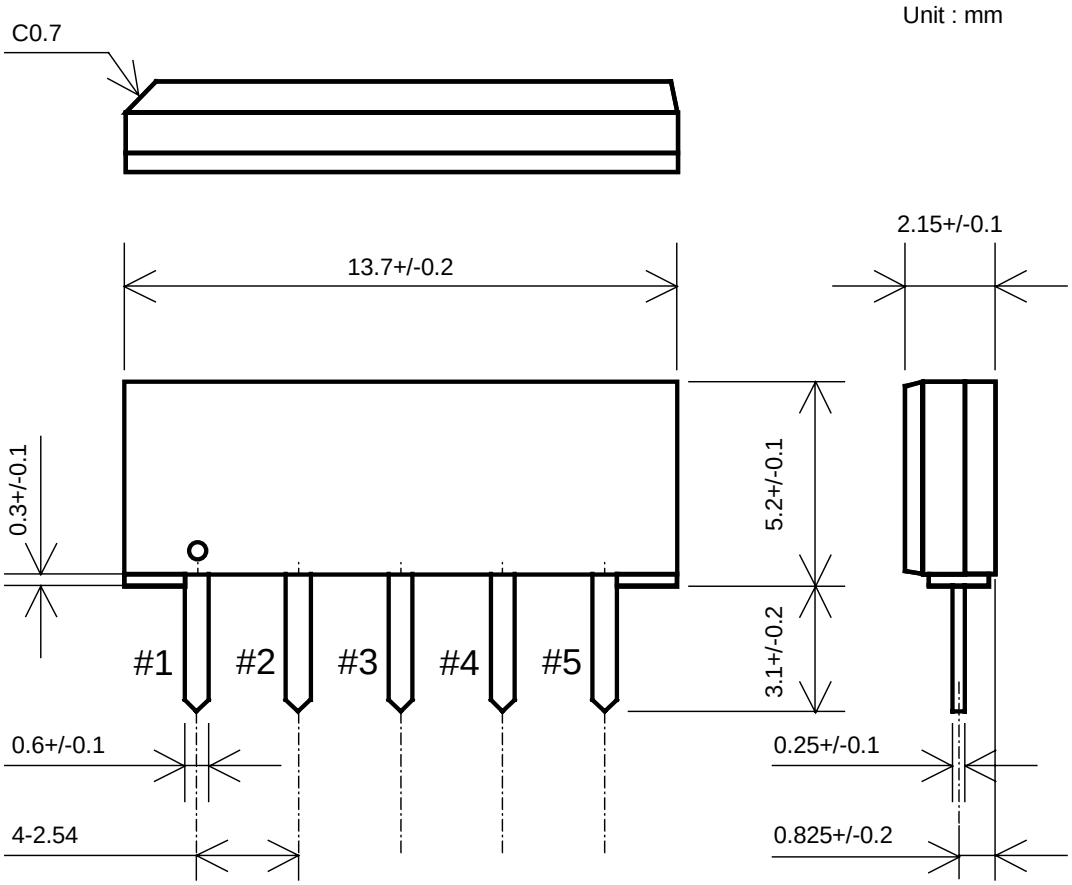


Fig.1

● Pin Configuration

Table 2

Pin No.	Symbol	Function
#1	IN	Input
#2	SW	Switching
#3	GND	Ground
#4	OUT	Output
#5	OUT	Output

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● Evaluation Circuit

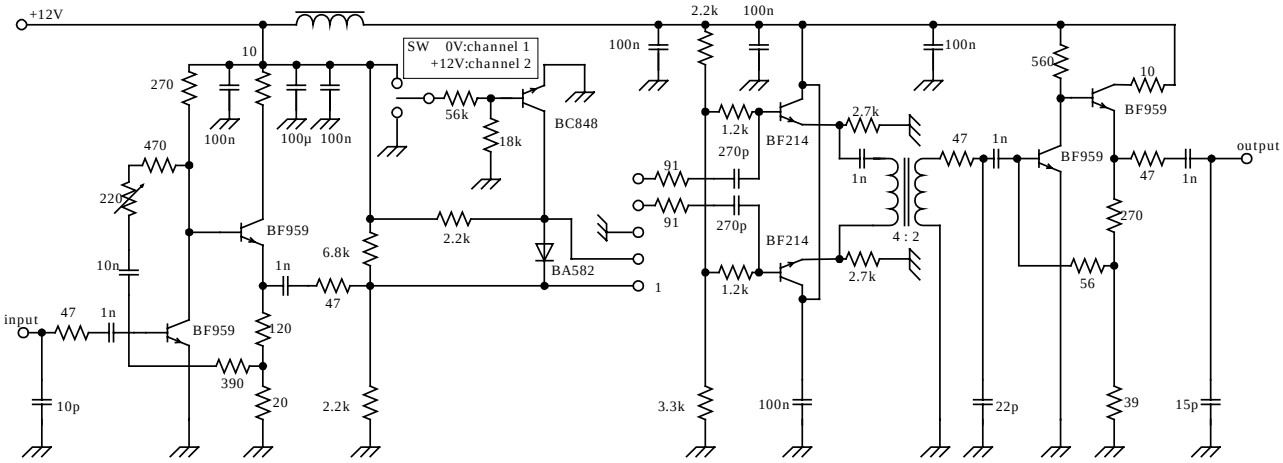


Fig.2 Evaluation circuit

● Equivalent Circuit

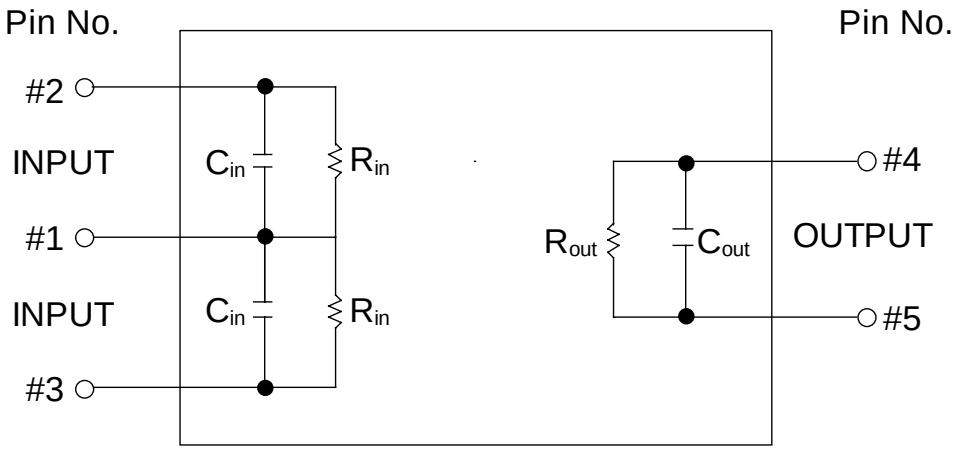
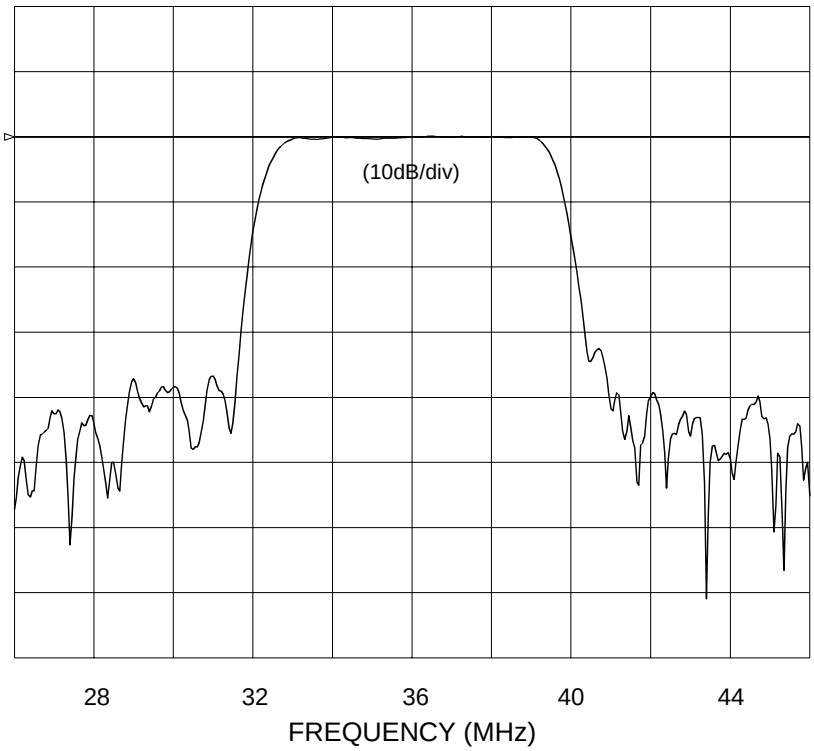


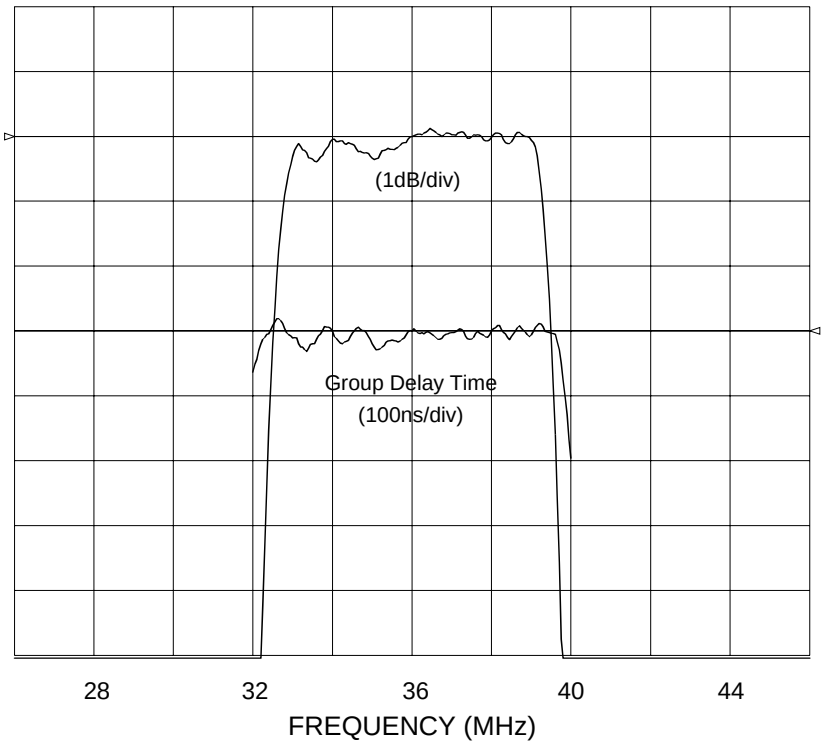
Fig.3 Equivalent circuit

Customer Name	**Standard specification**	FUJITSU MEDIA DEVICES LIMITED	
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Center Frequency	36.00 MHz	DATE	Jun. 30 2003
FMD Part Number	SBSF03ABPL	Version 1.3	

Channel 1 (BW=7MHz)



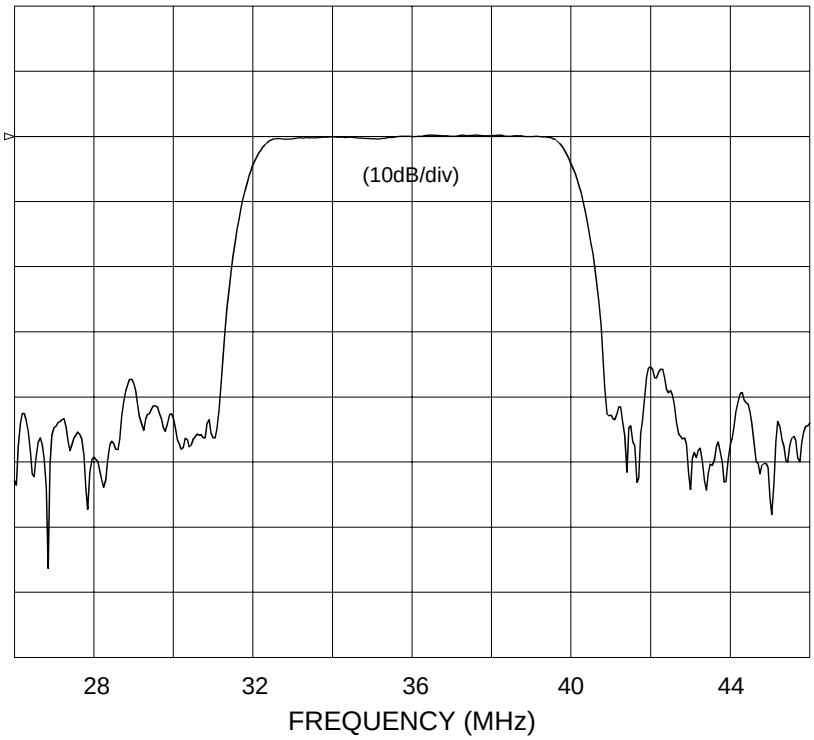
Frequency Characteristics



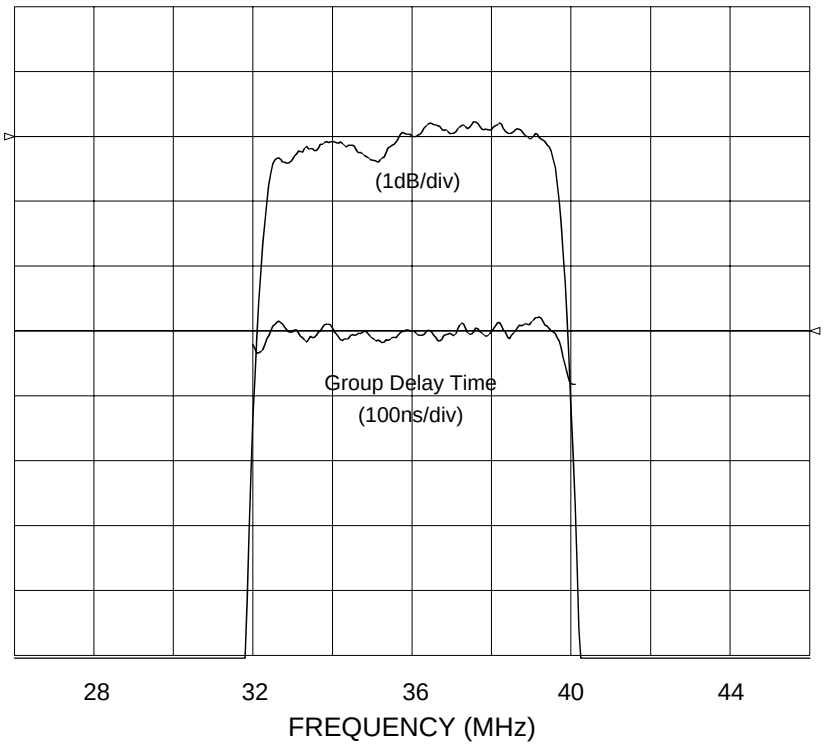
In-band Characteristics

Customer Name	**Standard specification**	FUJITSU MEDIA DEVICES LIMITED	
Application	IF Filter for Digital Terrestrial TV (Switchable)		
Center Frequency	36.00 MHz	DATE	Jun. 30 2003
FMD Part Number	SBSF03ABPL	Version 1.3	

Channel 2 (BW=8MHz)



Frequency Characteristics



In-band Characteristics