

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
Application	IF Filter for Digital Terrestrial TV (Switchable)		
Center Frequency	36.125 MHz	DATE	Jun. 30 2003
FMD Part Number	SBSF03AAPL	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		—	36.125	—	MHz	
Insertion Loss	36.125 MHz	20.4	21.9	23.4	dB	
Pass bandwidth	1 dB	—	6.5	—	MHz	
	3 dB	—	7.0	—	MHz	
	30 dB	—	8.6	—	MHz	
Relative level	31.875 MHz	—	-26	-19	dB	
	32.625 MHz	- 4.5	- 2.9	—	dB	
	32.825 MHz	- 2.2	- 1.2	—	dB	
	36.125 MHz	—	0	—	dB	Reference
	39.425 MHz	- 2.2	- 1.1	—	dB	
	39.625 MHz	- 4.5	- 3.0	—	dB	
	40.525 MHz	—	-34	-25	dB	
	46.875 MHz	—	-48	-33	dB	
	25.125 ~ 30.125 MHz	—	-40	-34	dB	
	42.125 ~ 50.125 MHz	—	-36	-30	dB	
Amplitude ripple (p-p)	33.125 ~ 39.125 MHz	—	0.5	1.0	dB	
Group delay ripple (p-p)	32.625 ~ 39.625 MHz	—	44	80	ns	
Input Capacitance	Cin1 (1.0 MHz)	—	19.0	—	pF	
Output Capacitance	Cout (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		—	36.125	—	MHz	
Insertion Loss	36.125 MHz	20.4	21.9	23.4	dB	
Pass bandwidth	1 dB	—	7.4	—	MHz	
	3 dB	—	7.9	—	MHz	
	30 dB	—	9.5	—	MHz	
Relative level	31.375 MHz	—	-30	-23	dB	
	32.125 MHz	- 5.7	- 4.0	—	dB	
	32.325 MHz	- 2.8	- 1.6	—	dB	
	36.125 MHz	—	0	—	dB	Reference
	39.925 MHz	- 2.8	- 1.5	—	dB	
	40.125 MHz	- 5.5	- 3.8	—	dB	
	41.025 MHz	—	-42	-30	dB	
	47.375 MHz	—	-50	-30	dB	
	25.125 ~ 30.125 MHz	—	-40	-34	dB	
	42.125 ~ 50.125 MHz	—	-34	-29	dB	
Amplitude ripple (p-p)	33.125 ~ 39.125 MHz	—	0.5	1.0	dB	
Group delay ripple (p-p)	32.775 ~ 39.725 MHz	—	40	80	ns	
Input Capacitance	Cin2 (1.0 MHz)	—	22.6	—	pF	
Output Capacitance	Cout (1.0 MHz)	—	4.3	—	pF	
Temperature coefficient		—	-72	—	ppm/°C	

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● Dimensions

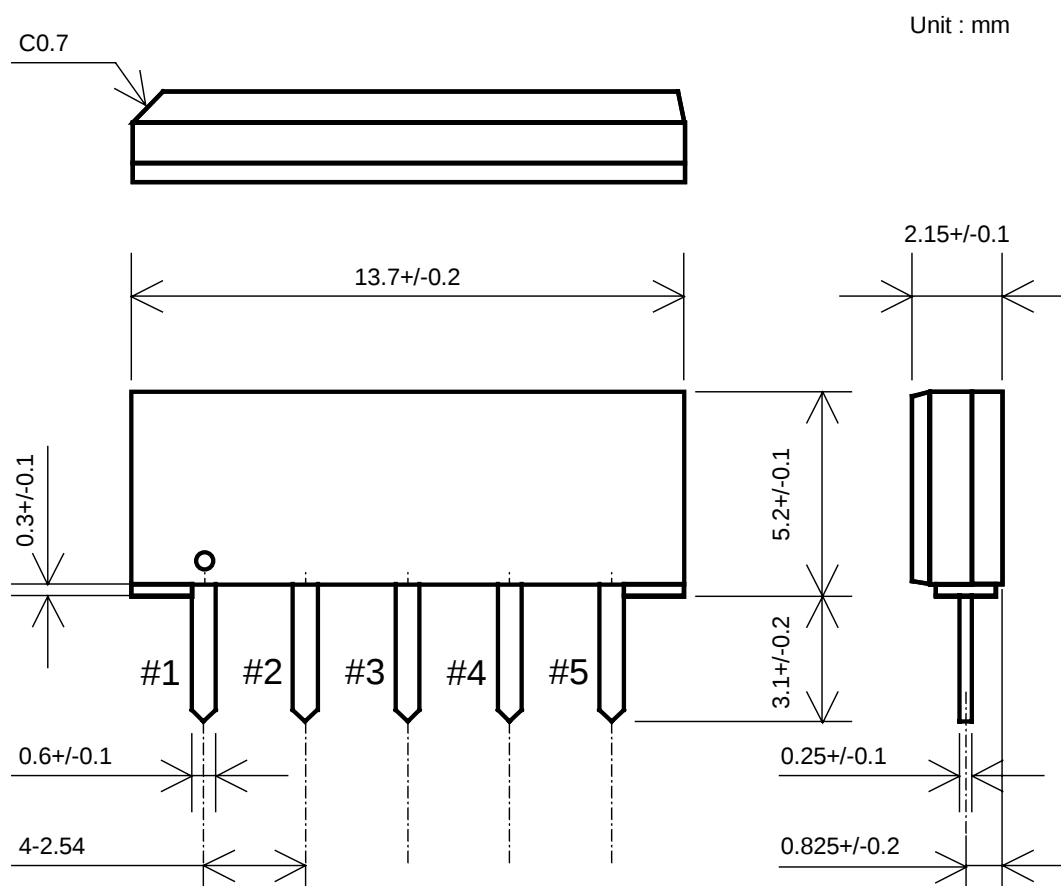


Fig.1

● 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

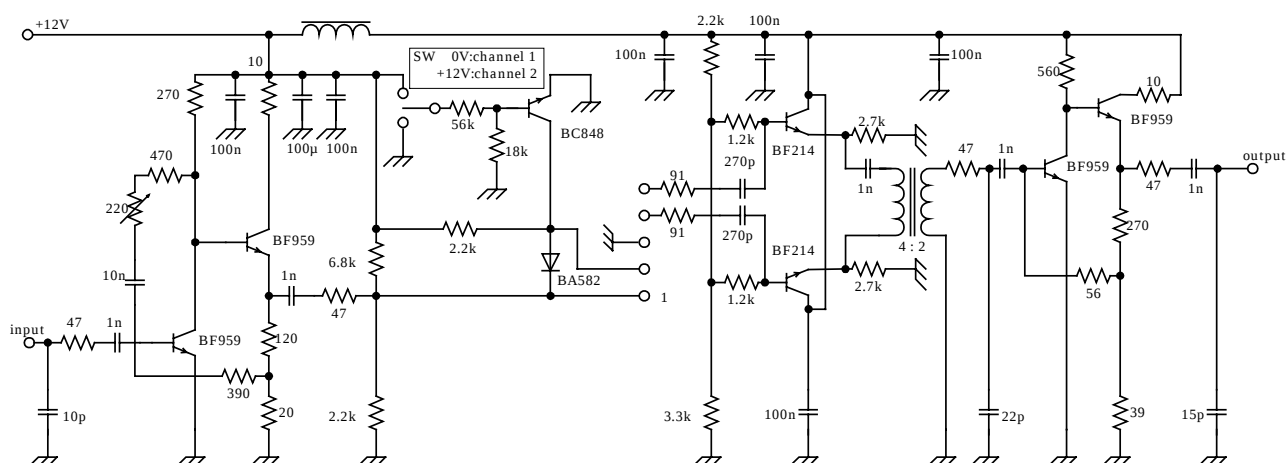


Fig.2 Evaluation circuit

● Equivalent Circuit

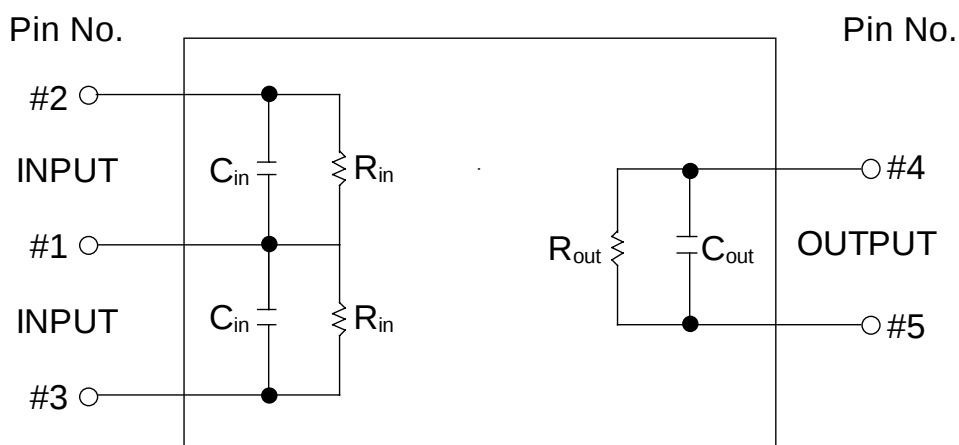
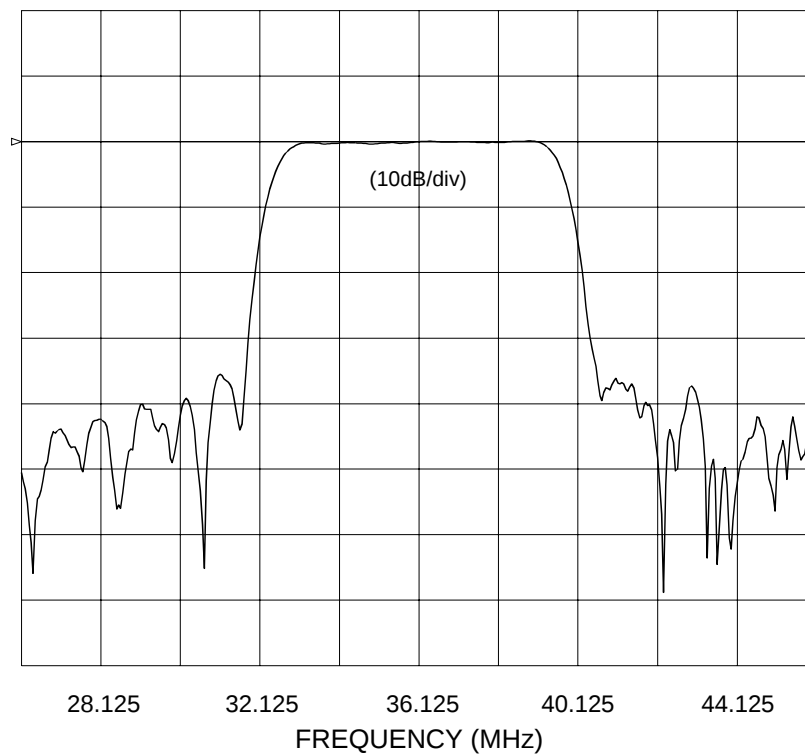


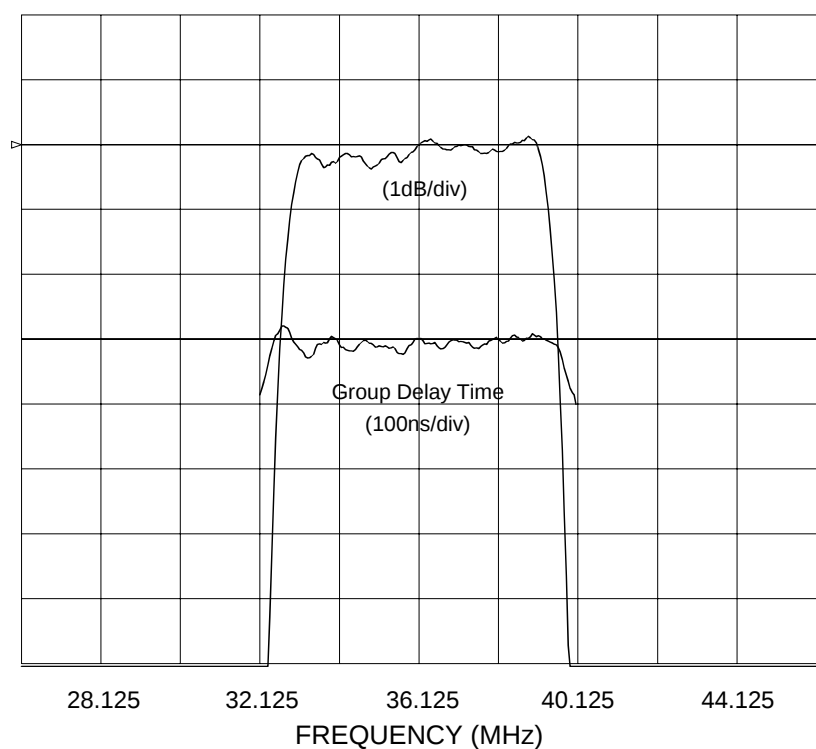
Fig.3 Equivalent circuit

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Channel 1 (BW=7MHz)



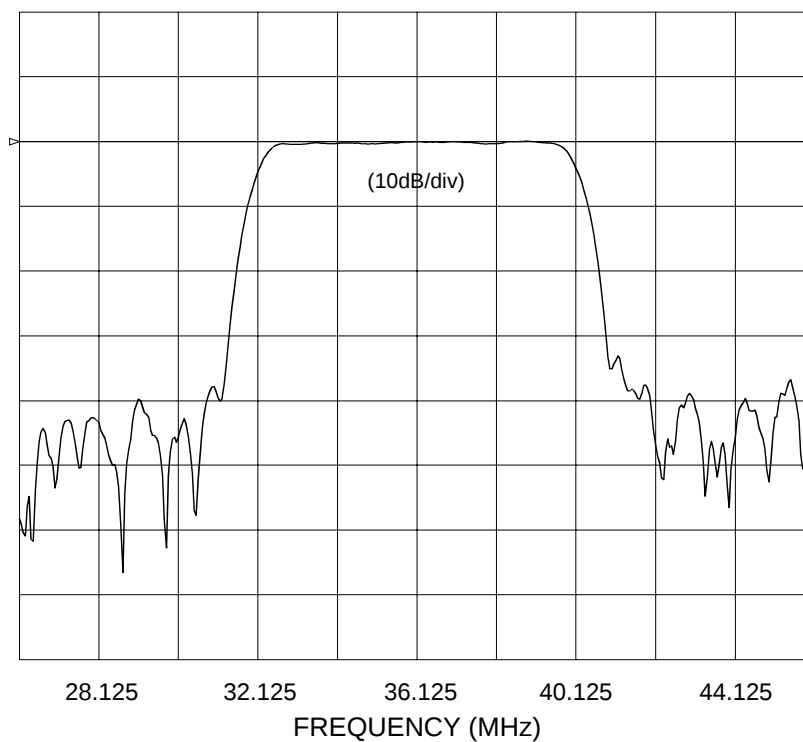
Frequency Characteristics



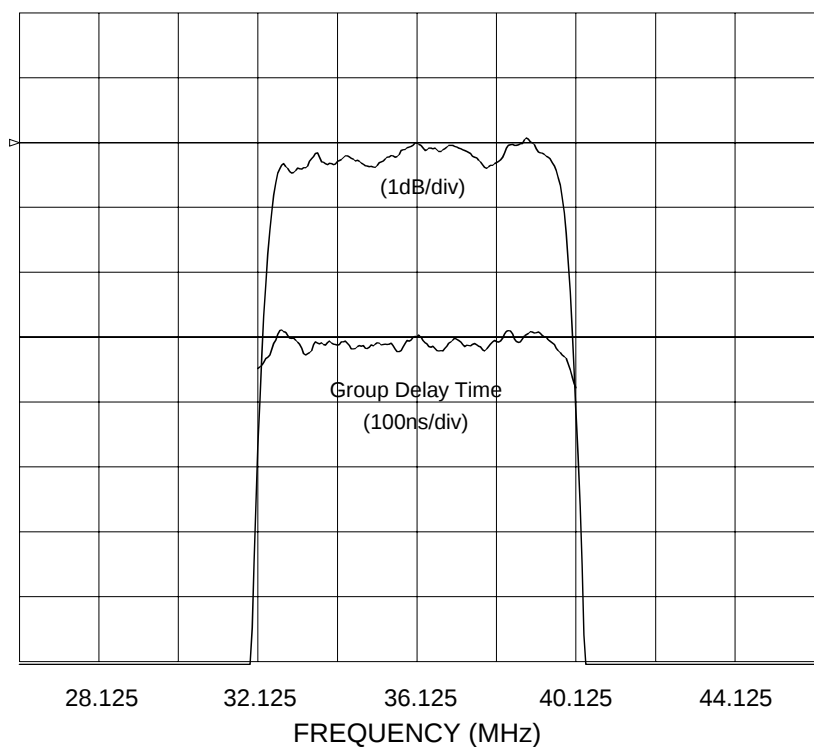
In-band Characteristics

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Channel 2 (BW=8MHz)



Frequency Characteristics



In-band Characteristics