

Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
Application	IF Filter for Digital Cable Digital Terrestrial TV		
Center Frequency	36.125 MHz	DATE	Jun. 27 2003
FMD Part Number	SBF0407BPL	Version 1.3	

Table 1 Electrical Specification (Ta=25°C)

Items	Conditions	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Center frequency		—	36.125	—	MHz	
Insertion Loss	36.125 MHz	17.4	18.9	20.4	dB	
Pass bandwidth	1 dB	—	6.6	—	MHz	
	3 dB	—	7.0	—	MHz	
	30 dB	—	8.6	—	MHz	
Relative level	31.750 MHz	—	-39	-30	dB	
	32.625 MHz	- 4.2	- 3.6	—	dB	
	32.825 MHz	- 3.0	- 1.5	—	dB	
	36.125 MHz	—	0	—	dB	Reference
	39.425 MHz	- 1.6	- 0.6	—	dB	
	39.625 MHz	- 3.7	- 2.2	—	dB	
	40.400 MHz	—	-26	-15	dB	
	46.750 MHz	—	-49	-36	dB	
	25.000 ~ 31.625 MHz	—	-42	-35	dB	
	40.625 ~ 50.000 MHz	—	-39	-30	dB	
Amplitude ripple (p-p)	33.125 ~ 39.125 MHz	—	0.5	0.8	dB	
Group delay ripple (p-p)	32.625 ~ 39.625 MHz	—	26	40	ns	
Input Capacitance	Cin (1.0 MHz)	—	15.9	—	pF	
Output Capacitance	Cout (1.0 MHz)	—	3.4	—	pF	
Temperature coefficient		—	-72	—	ppm/°C	

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● Dimensions

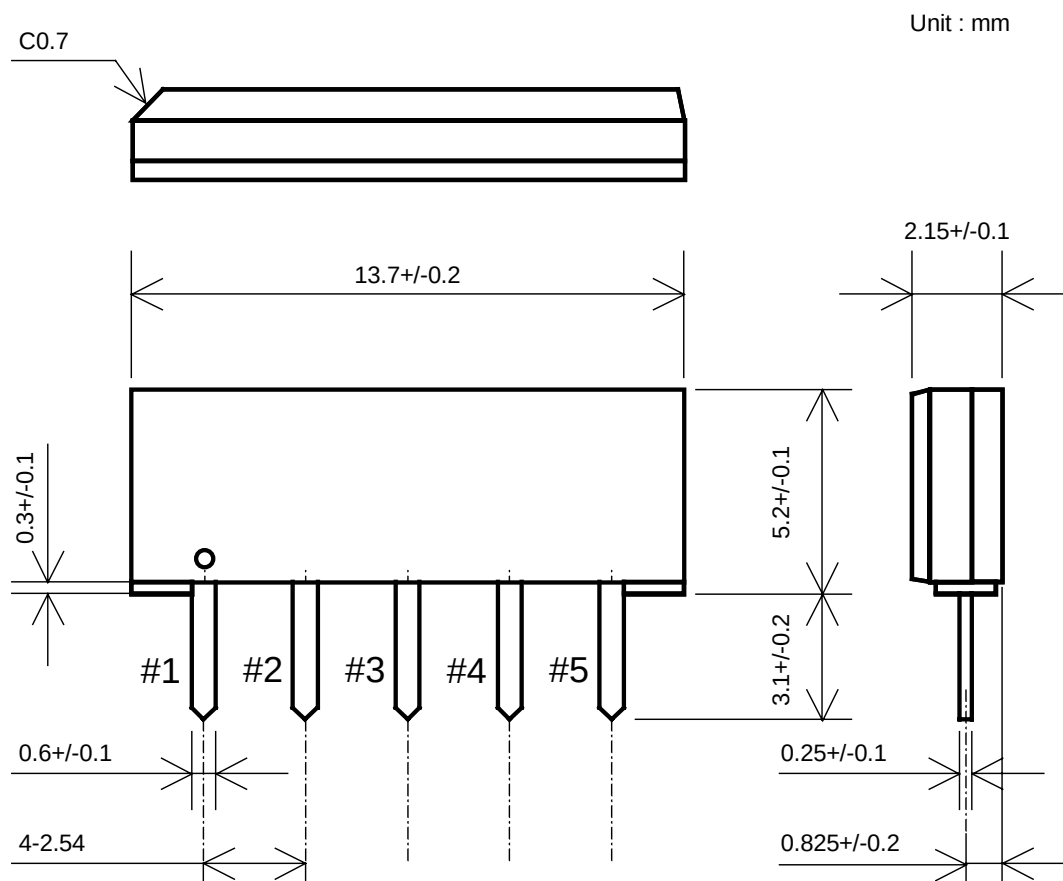


Fig.1

● Pin Configuration

Table 2

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

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● Evaluation Circuit

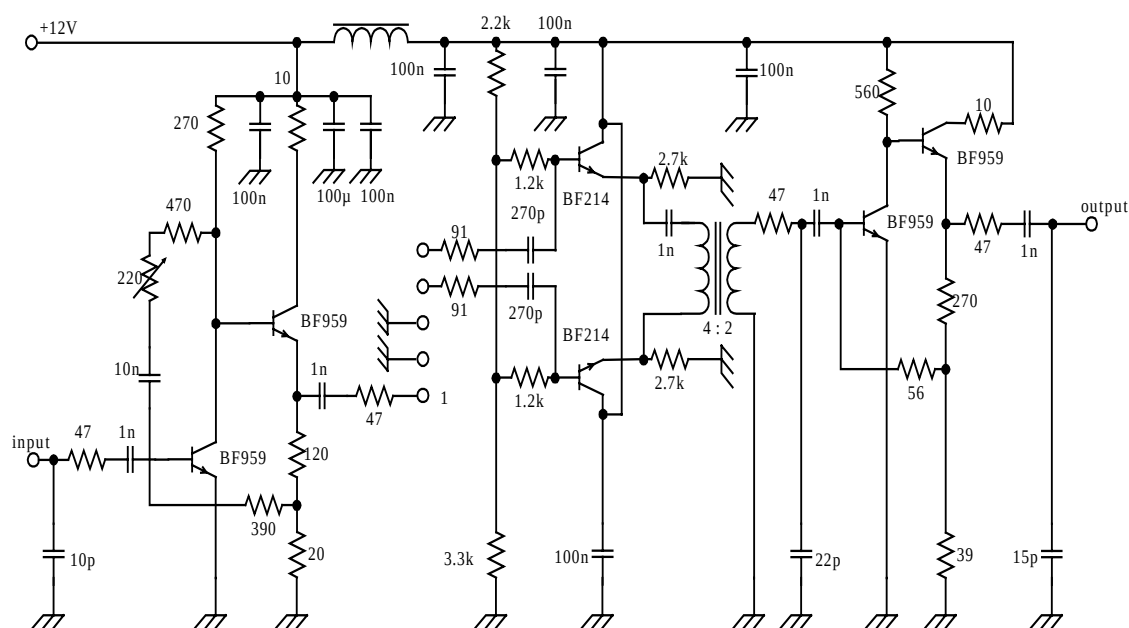


Fig.2 Evaluation circuit

● Equivalent Circuit

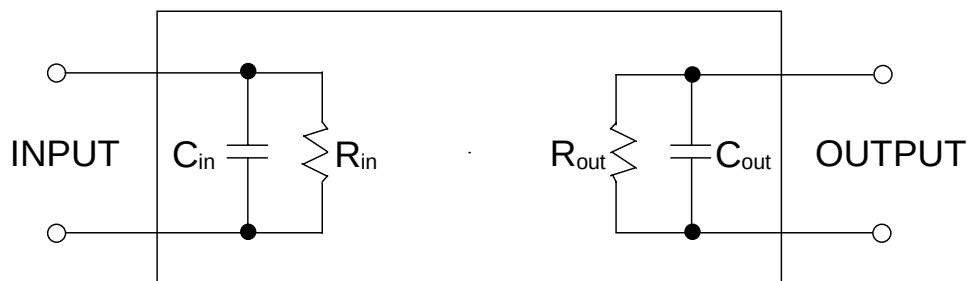
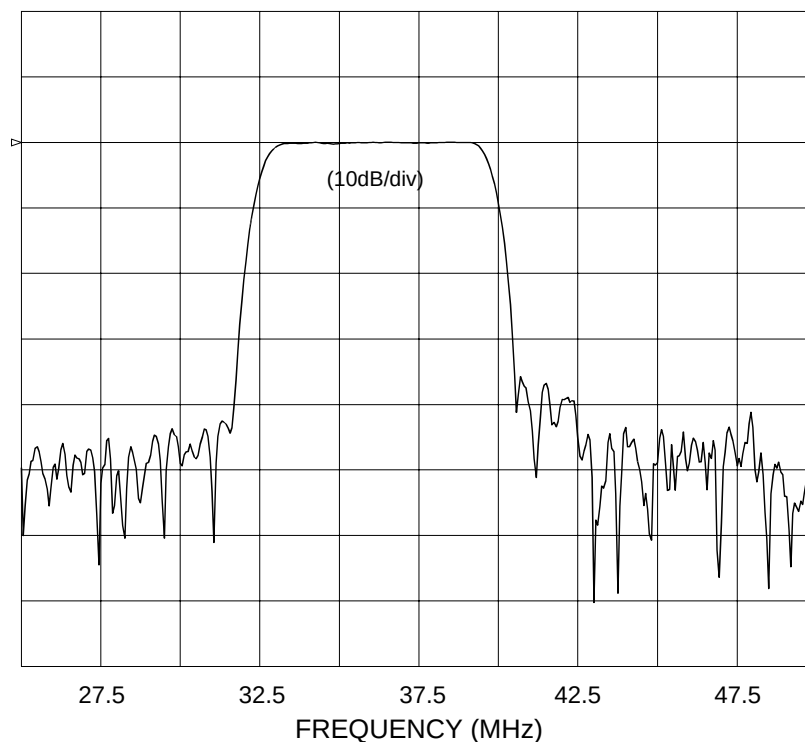
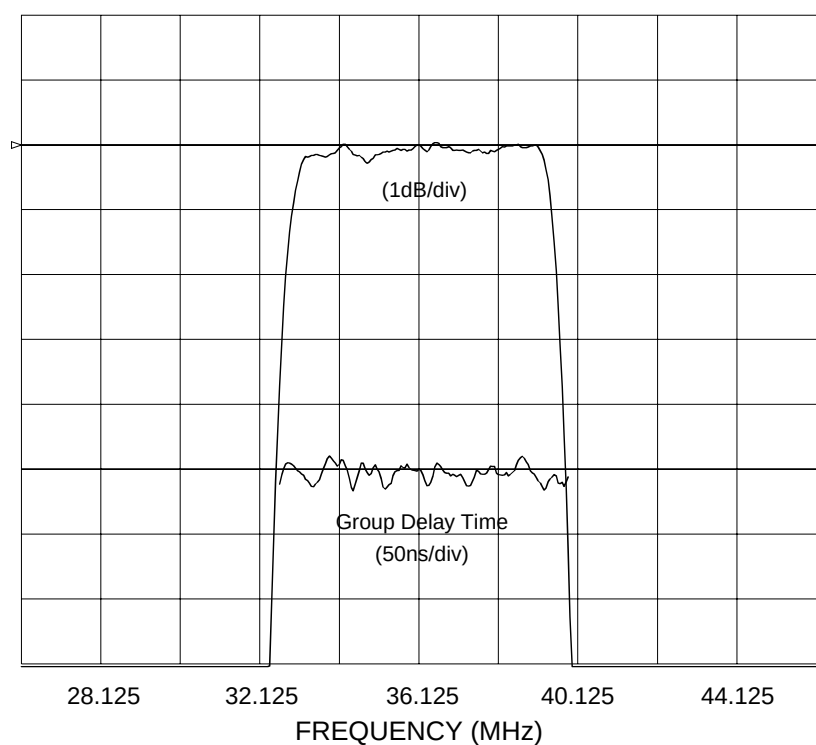


Fig.3 Equivalent circuit

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**Frequency Characteristics****In-band Characteristics**