

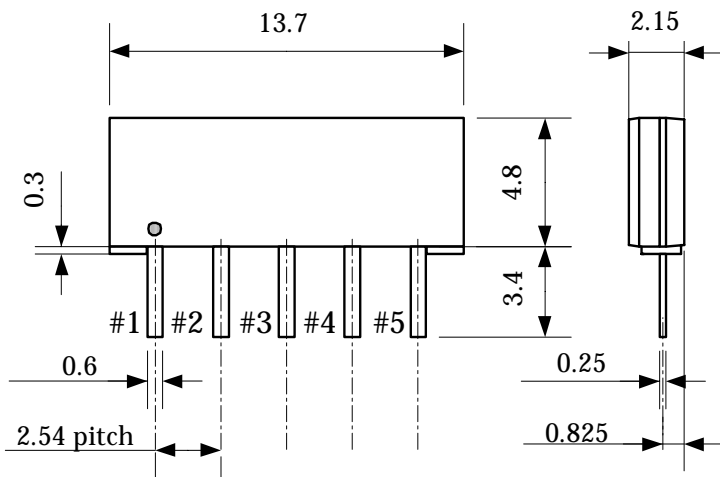
Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
Application	IF Filter for digital cable TV		
System	America		
Picture Carrier Frequency	44.00 MHz	DATE	Mar. 02 2006
FMD Part Number	FAR-F4SE-44M000-H0AA	Version	1.0 Preliminary

Table 1 Proposal Specification (Ta=25°C(45°C))

Items	Conditions	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	44.06 (44.00) MHz	13.4	14.9	16.4	dB	
Pass bandwidth	3dB	–	6.20	–	MHz	
	30dB	–	8.00	–	MHz	
Relative level	35.06 ~ 39.81 MHz (35.00 ~ 39.75 MHz)	–	–46	–40	dB	
	40.96 (40.90) MHz	–4.0	–3.0	–2.0	dB	
	41.56 (41.50) MHz	–1.0	0	1.0	dB	
	44.06 (44.00) MHz	–	0	–	dB	Reference
	46.56 (46.50) MHz	–1.0	0	1.0	dB	
	47.16 (47.10) MHz	–4.0	–3.0	–2.0	dB	
	48.31 ~ 50.06 MHz (48.25 ~ 50.00 MHz)	–	–39	–34	dB	
	50.06 ~ 55.06 MHz (50.00 ~ 55.00 MHz)	–	–46	–40	dB	
Amplitude ripple (p-p)	41.56 ~ 46.56 MHz (41.50 ~ 46.50 MHz)	–	0.3	–	dB	
Group delay ripple (p-p)	40.96 ~ 47.16 MHz (40.90 ~ 47.10 MHz)	–	26	–	ns	
Input Impedance	44.06 MHz	–	2.1//11.4	–	kΩ//pF	
Output Impedance	44.06 MHz	–	1.6//4.4	–	kΩ//pF	
Temperature coefficient		–	-72	–	ppm/°C	

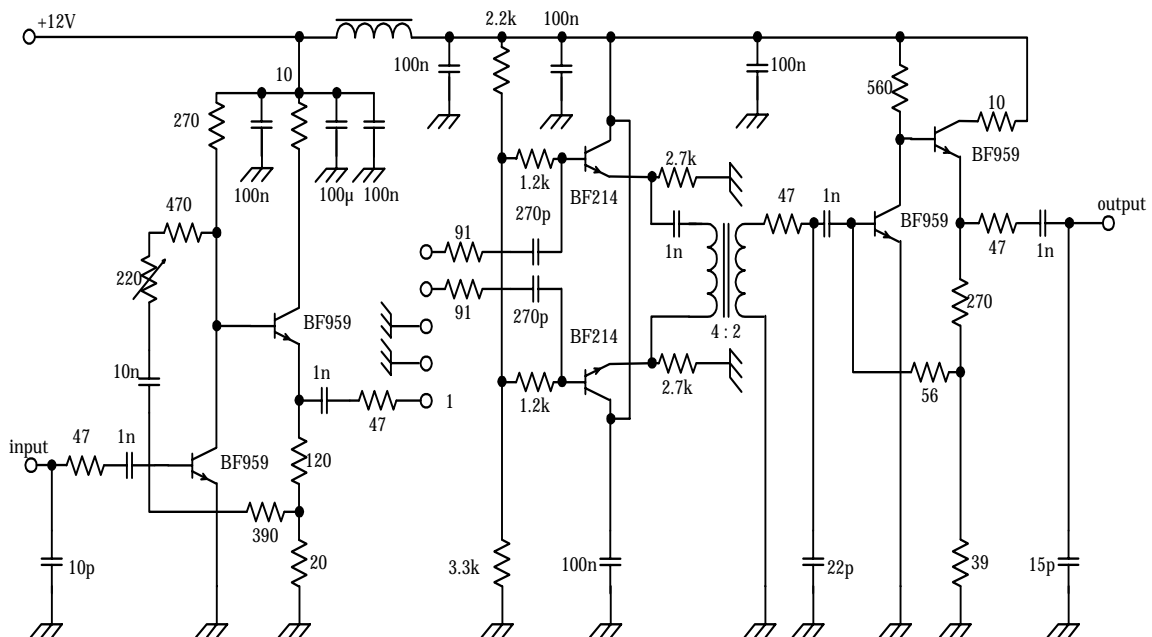
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1. Pin assignment of plastics Package



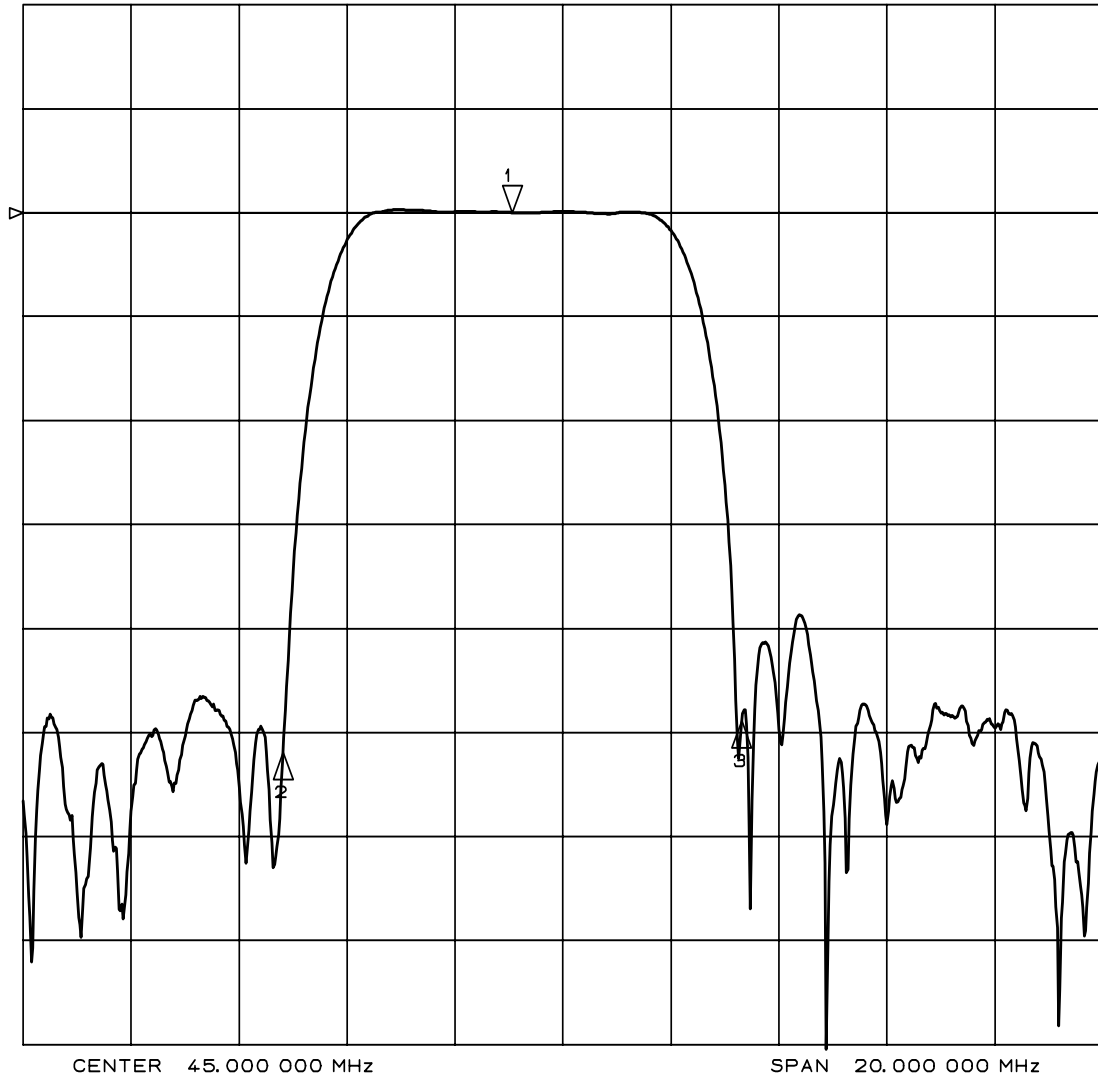
Pin No.	Pin name	Description
1	IN	input pin
2	IN	input pin (Ground)
3	GND	Ground pin
4	OUT	output pin
5	OUT	output pin

2. Measurement circuit



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Amplitude Response (10dB/div)



Marker 1 = 44.06 MHz

Marker 2 = 39.81 MHz

Marker 3 = 48.31 MHz

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Amplitude Response (1dB/div)

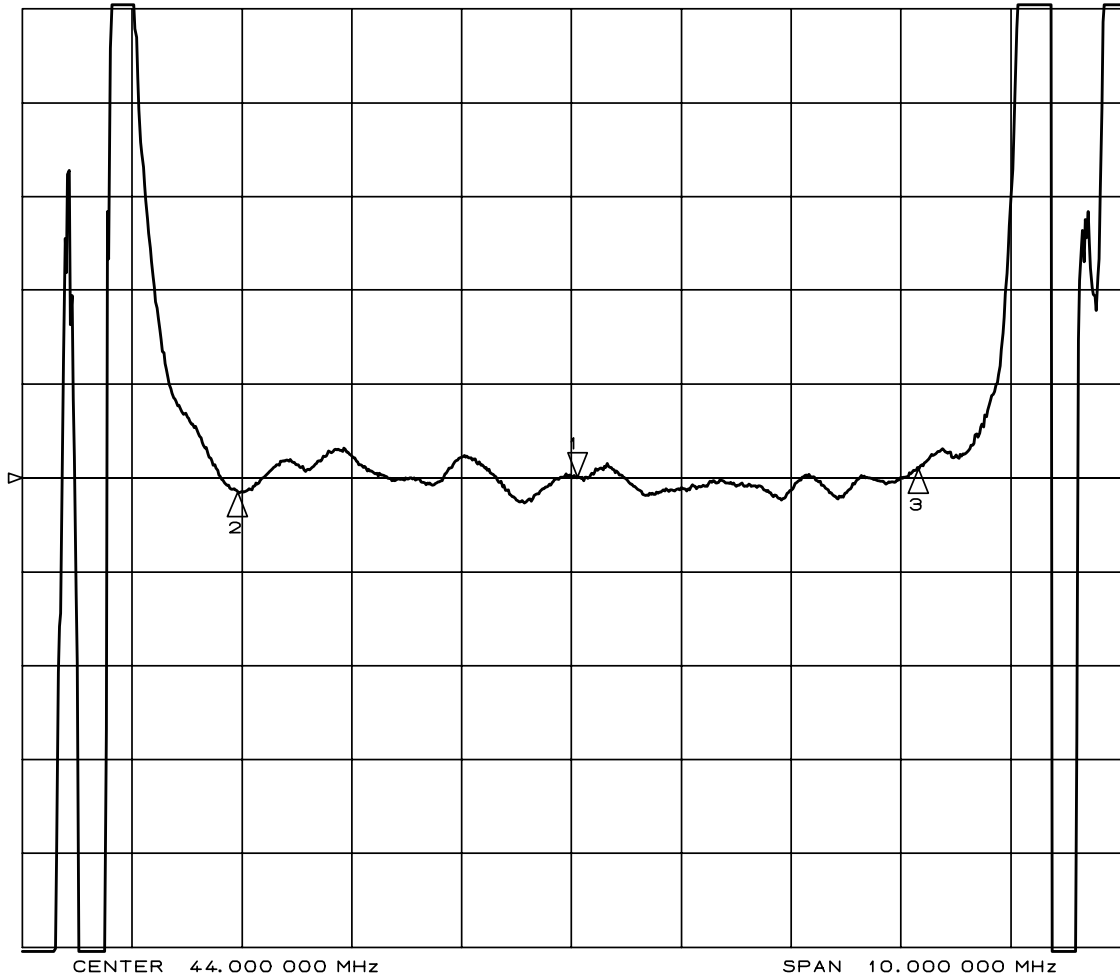


- Marker 1 = 44.06 MHz
- Marker 2 = 40.96 MHz
- Marker 3 = 41.56 MHz
- Marker 4 = 46.56 MHz
- Marker 5 = 47.16 MHz

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Group Delay (50ns/div)

Delay Aper.=200kHz



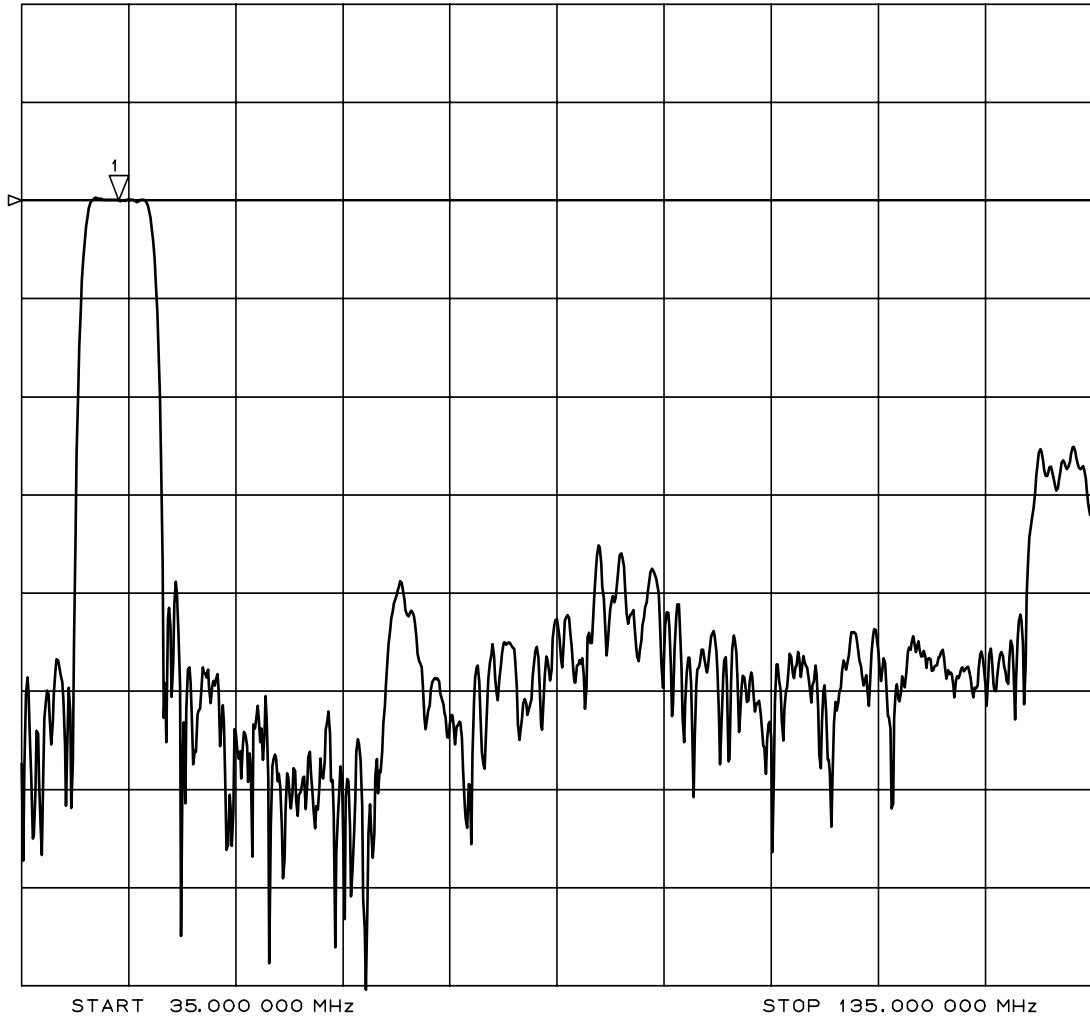
Marker 1 = 44.06 MHz

Marker 2 = 40.96 MHz

Marker 3 = 47.16 MHz

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Amplitude Response (10dB/div)
(35.0MHz ----- 135.0MHz)



Marker 1 = 44.06 MHz

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Time domain Response (10dB/div)

