

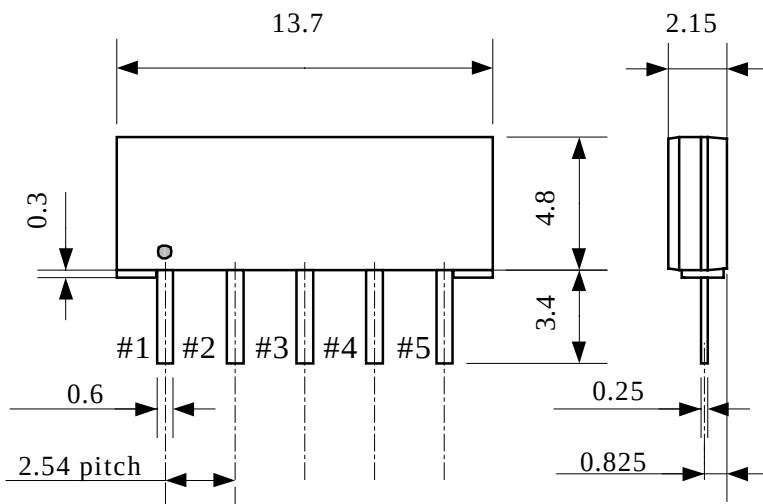
Customer Name	Standard specification	FUJITSU MEDIA DEVICES LIMITED	
Application	IF Filter for TV tuner		
System	Europe		
Picture Carrier Frequency	38.90 MHz	DATE	June 21, 2005
FMD Part Number	FAR-F4SE-36M125-H0E5	Version	1.0

Table 1 Electrical Specification (Ta=25°C)

Items	Conditions	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	38.90 MHz	18.6	20.1	21.6	dB	
Pass Bandwidth	1.5 dB	–	7.4	–	MHz	
	3.0 dB	–	7.6	–	MHz	
	30.0 dB	–	8.7	–	MHz	
Relative level	25.00 ~ 30.90 MHz	–	–42	–36	dB	
	30.90 MHz	–	–55	–40	dB	
	31.90 MHz	–	–14	–10	dB	
	32.13 MHz	–6.5	–4.4	–	dB	
	32.32 MHz	–2.0	–0.8	–	dB	
	38.90 MHz	–	0	–	dB	Reference
	39.93 MHz	–8.0	–5.8	–	dB	
	40.40 MHz	–	–27	–20	dB	
	40.90 MHz	–	–36	–30	dB	
	41.40 MHz	–	–49	–38	dB	
	41.40 ~ 50.00 MHz	–	–39	–33	dB	
Amplitude ripple	32.60 ~ 38.90 MHz	–	0.3	–	dB	
Group delay ripple (p-p)	32.325 ~ 39.925 MHz	–	44	–	ns	
Input Impedance	36.0 MHz	–	2.6//14.5	–	kΩ//pF	
Output Impedance	36.0 MHz	–	3.0//4.3	–	kΩ//pF	
Temperature coefficient		–	–72	–	ppm/°C	

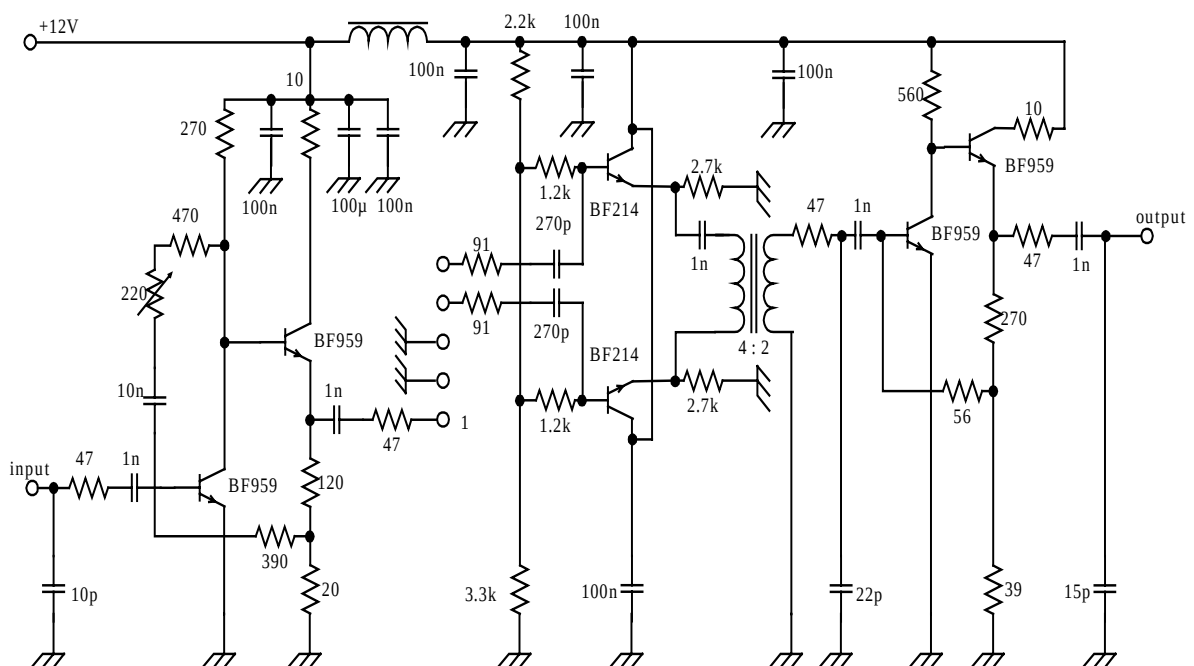
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1. Pin assignment of plastics Package



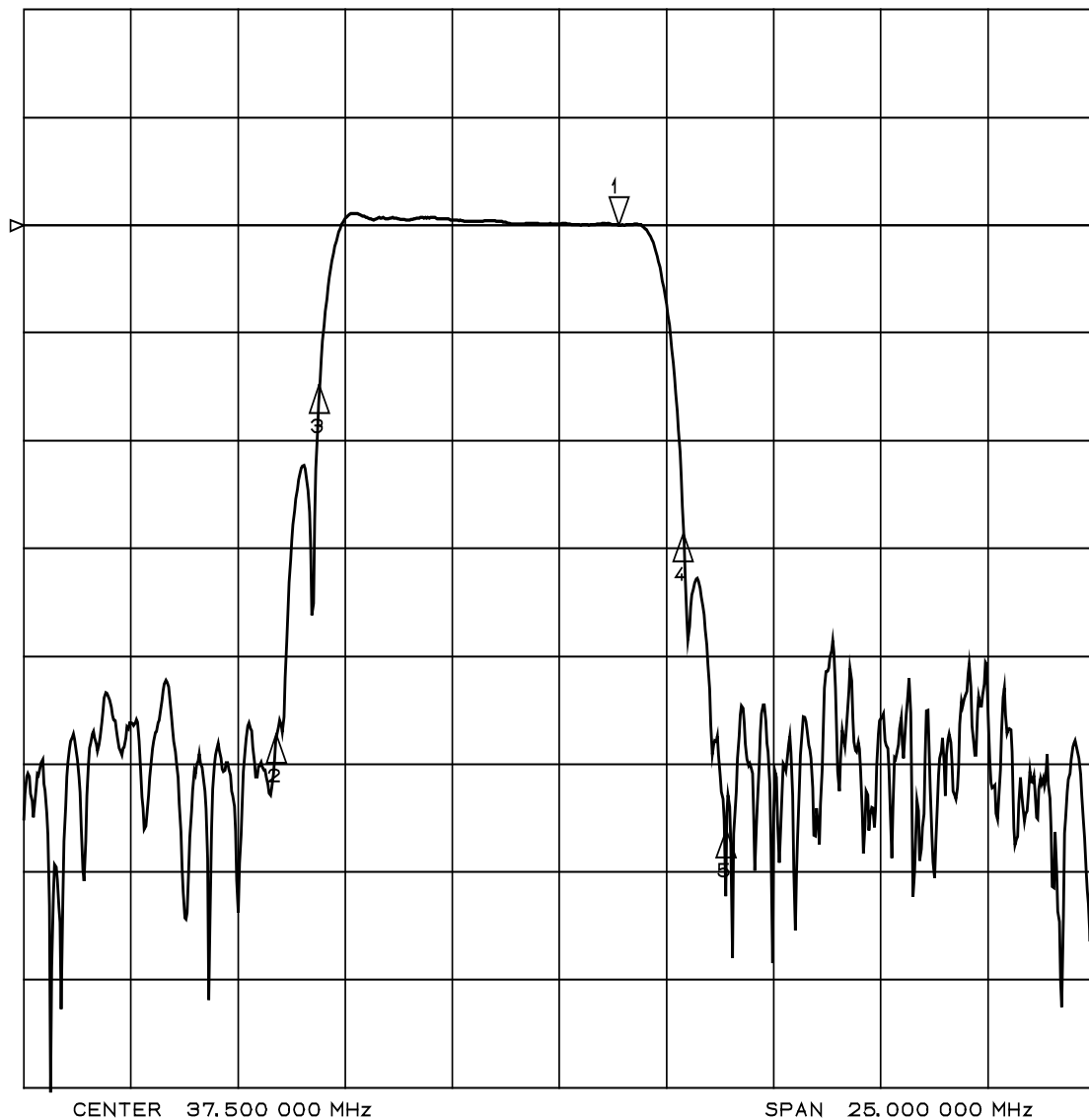
Pin No.	Pin name	Description
1	IN	input pin
2	IN	input pin (Ground)
3	GND	Ground pin
4	OUT	output pin
5	OUT	output pin

2. Measurement circuit



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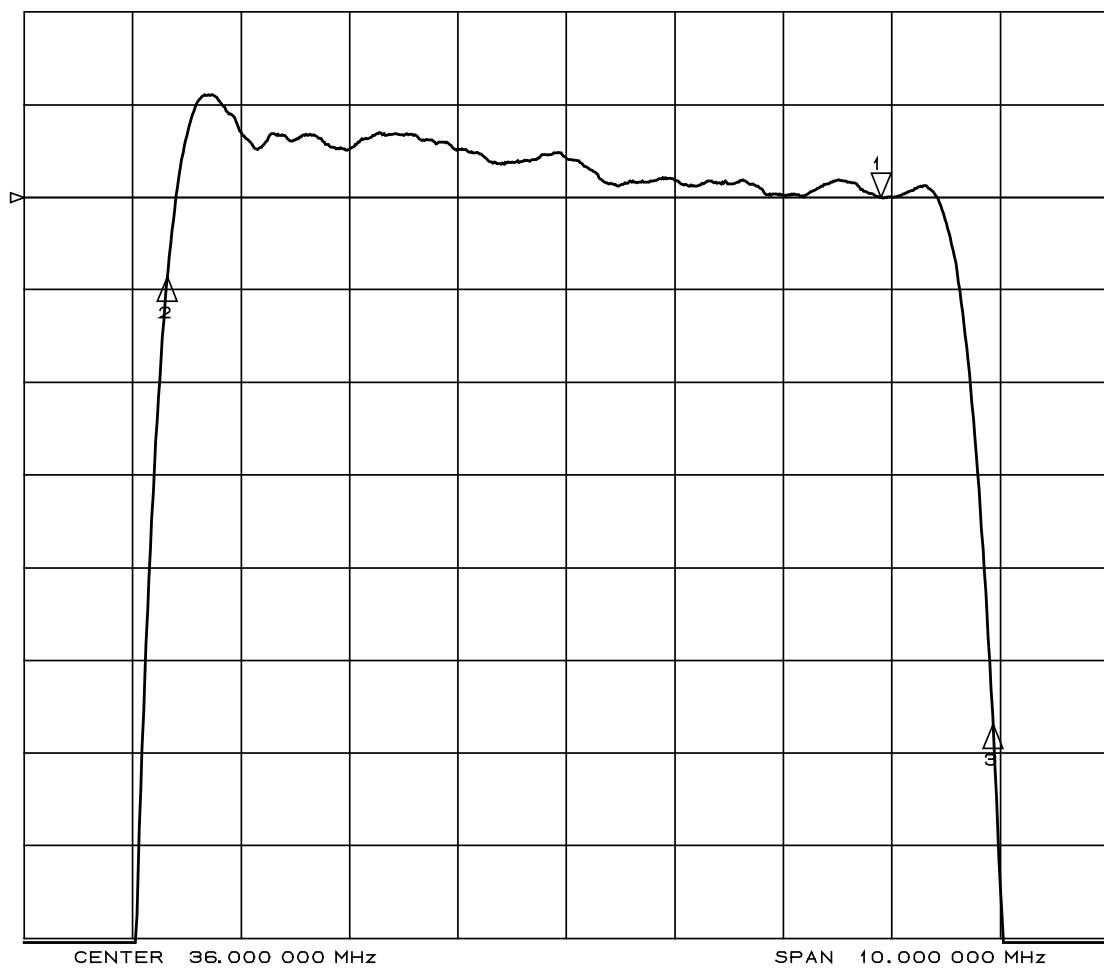
Amplitude Response (10dB/div)



Marker 1 : 38.90MHz
 Marker 2 : 30.90MHz
 Marker 3 : 31.90MHz
 Marker 4 : 40.90MHz
 Marker 5 : 41.40MHz

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Amplitude Response (1dB/div)



Marker 1 : 38.90MHz

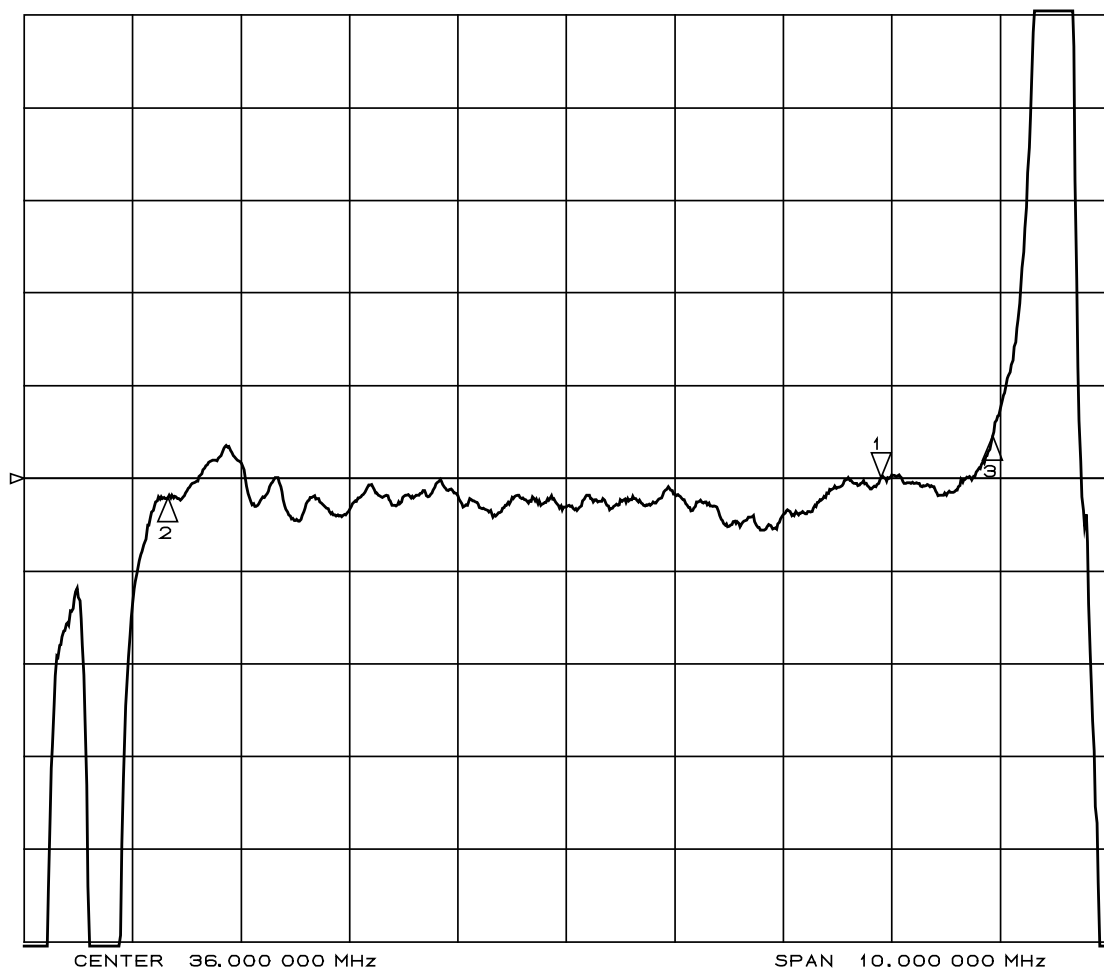
Marker 2 : 32.32MHz

Marker 3 : 39.93MHz

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Group Delay (50ns/div)

Delay Aper.=250kHz



Marker 1 : 38.90MHz
 Marker 2 : 32.325MHz
 Marker 3 : 39.925MHz