

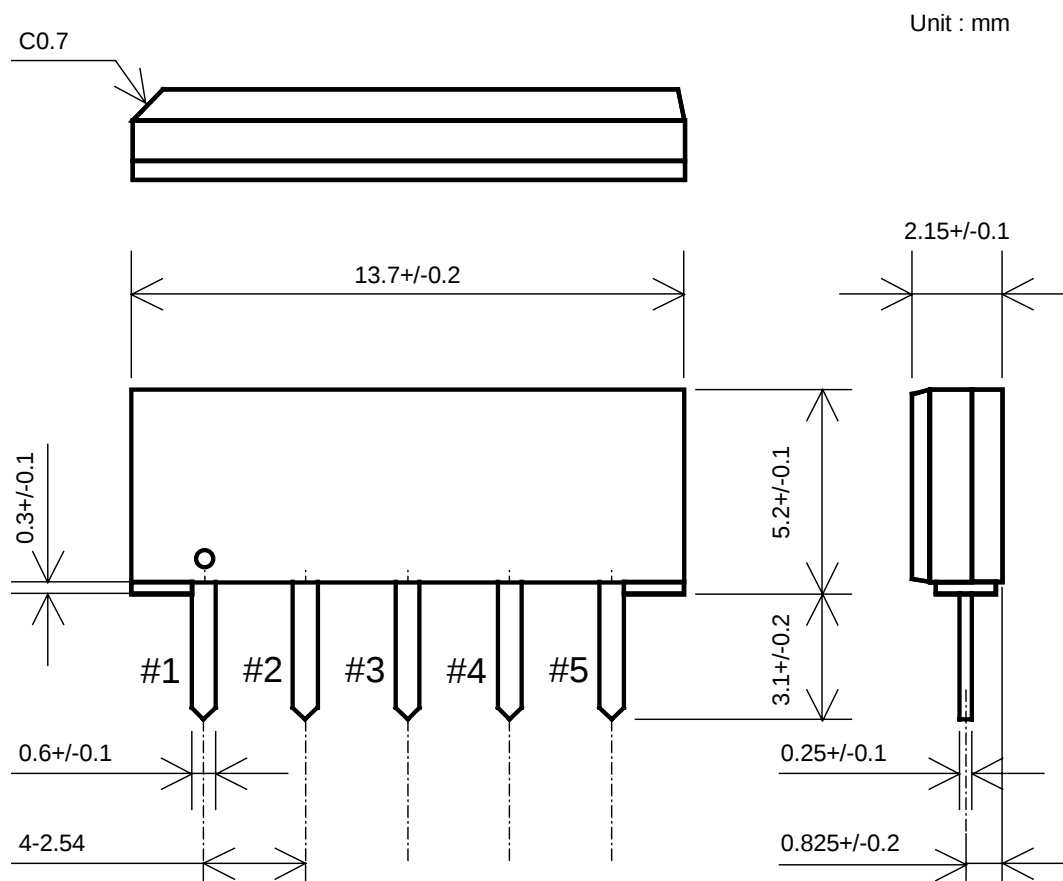
|                  |                                                          |                               |              |
|------------------|----------------------------------------------------------|-------------------------------|--------------|
| Customer Name    | <b>Standard specification</b>                            | FUJITSU MEDIA DEVICES LIMITED |              |
| Application      | IF Filter for<br>Digital Cable<br>Digital Terrestrial TV |                               |              |
| Center Frequency | 36.125 MHz                                               | DATE                          | Jun. 27 2003 |
| FMD Part Number  | SBF0408KPL                                               | 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        | 18.4          | 19.9   | 21.4 | dB     |           |
| Pass bandwidth              | 1 dB              | —             | 7.7    | —    | MHz    |           |
|                             | 3 dB              | —             | 8.1    | —    | MHz    |           |
|                             | 30 dB             | —             | 9.4    | —    | MHz    |           |
| Relative level              | 31.25 MHz         | —             | -51    | -38  | dB     |           |
|                             | 32.13 MHz         | - 3.6         | - 2.4  | —    | dB     |           |
|                             | 32.32 MHz         | - 1.7         | - 0.7  | —    | dB     |           |
|                             | 36.125 MHz        | —             | 0      | —    | dB     | Reference |
|                             | 39.93 MHz         | - 1.8         | - 0.8  | —    | dB     |           |
|                             | 40.13 MHz         | - 3.9         | - 2.7  | —    | dB     |           |
|                             | 40.90 MHz         | —             | -33    | -23  | dB     |           |
|                             | 47.25 MHz         | —             | -55    | -40  | dB     |           |
|                             | 25.00 ~ 31.25 MHz | —             | -42    | -35  | dB     |           |
|                             | 41.125 ~ 50.0 MHz | —             | -37    | -30  | dB     |           |
| Amplitude ripple<br>(p-p)   | 32.65 ~ 39.60 MHz | —             | 0.5    | 1.0  | dB     |           |
| Group delay ripple<br>(p-p) | 32.65 ~ 39.60 MHz | —             | 28     | 50   | ns     |           |
| Input Capacitance           | Cin (1.0 MHz)     | —             | 16.3   | —    | pF     |           |
| Output Capacitance          | Cout (1.0 MHz)    | —             | 3.5    | —    | pF     |           |
| Temperature coefficient     |                   | —             | -72    | —    | ppm/°C |           |

|                  |                                                          |                               |              |
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## ● Dimensions



**Fig.1**

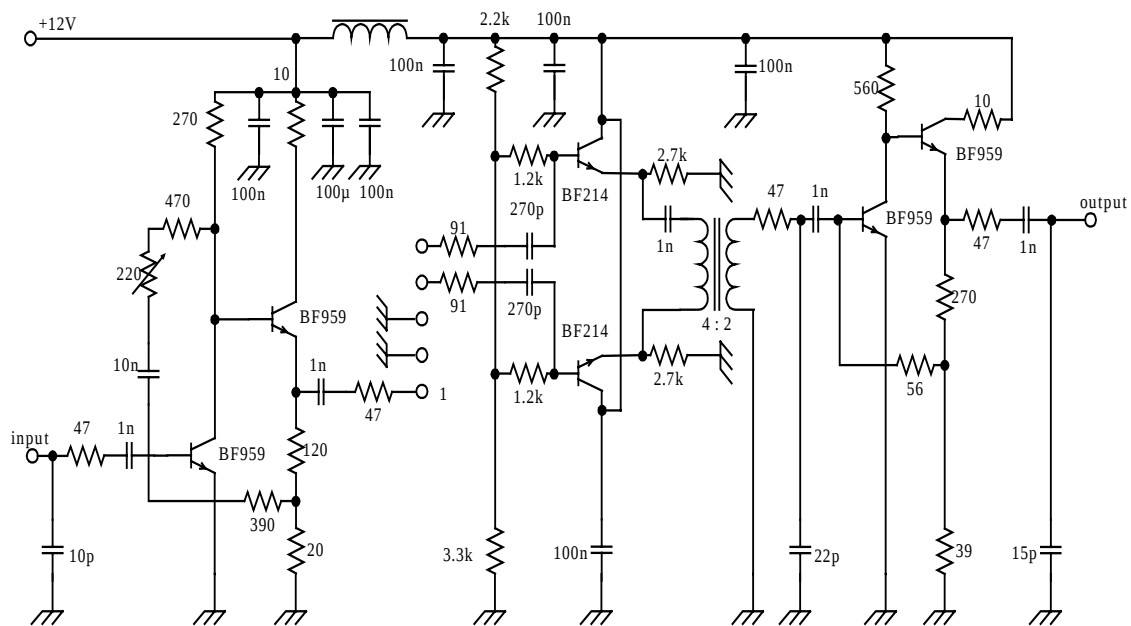
## ● Pin Configuration

**Table 2**

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

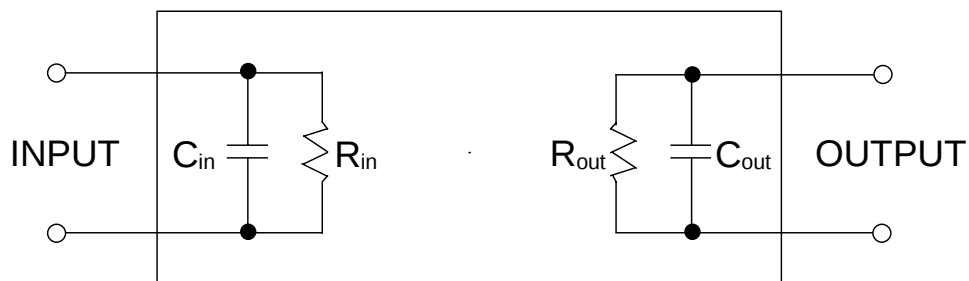
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- **Evaluation Circuit**



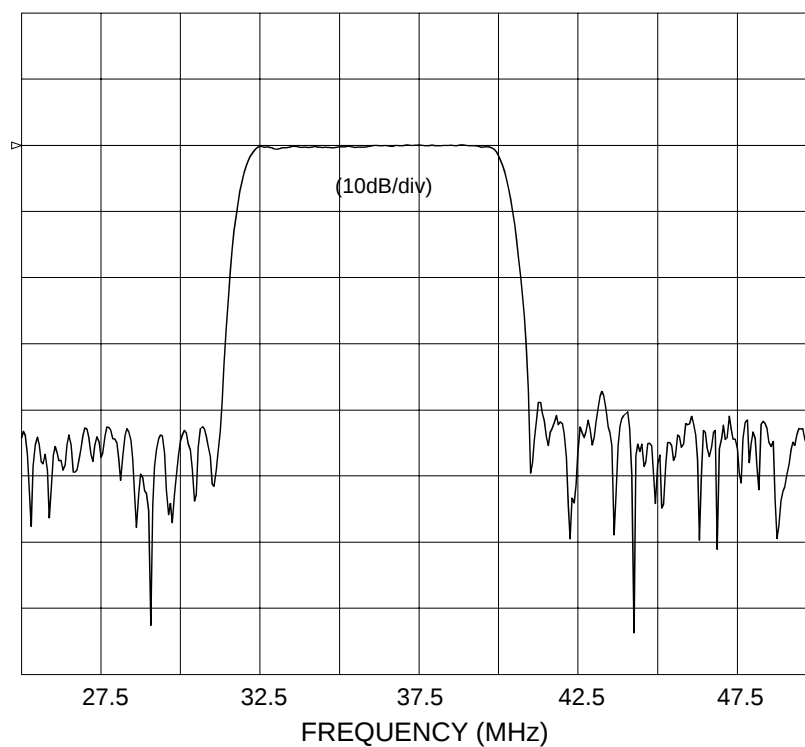
### Fig.2 Evaluation circuit

- Equivalent Circuit

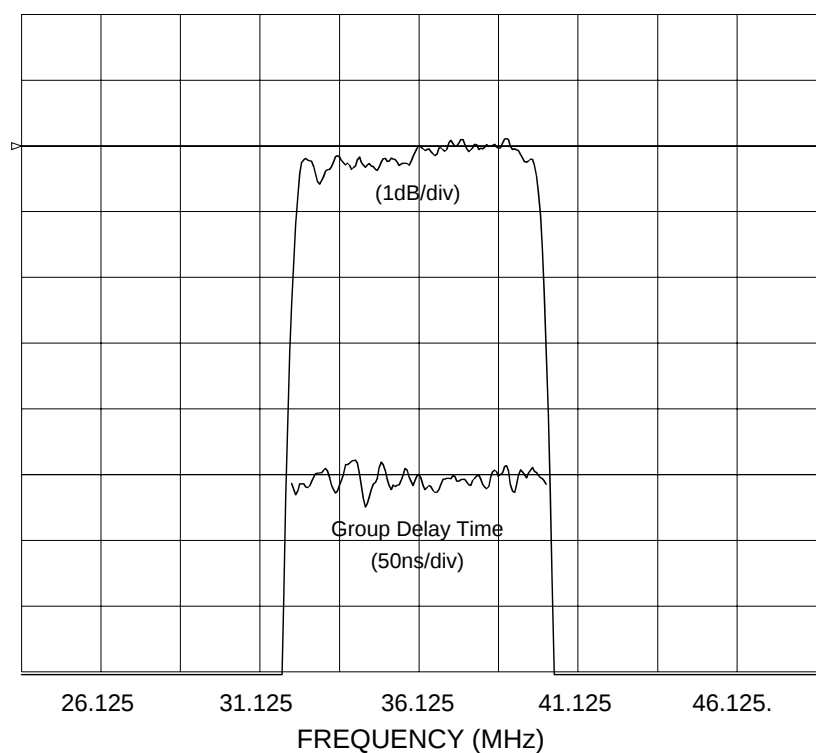


### Fig.3 Equivalent circuit

|                  |                                                          |                               |              |
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Frequency Characteristics



In-band Characteristics