

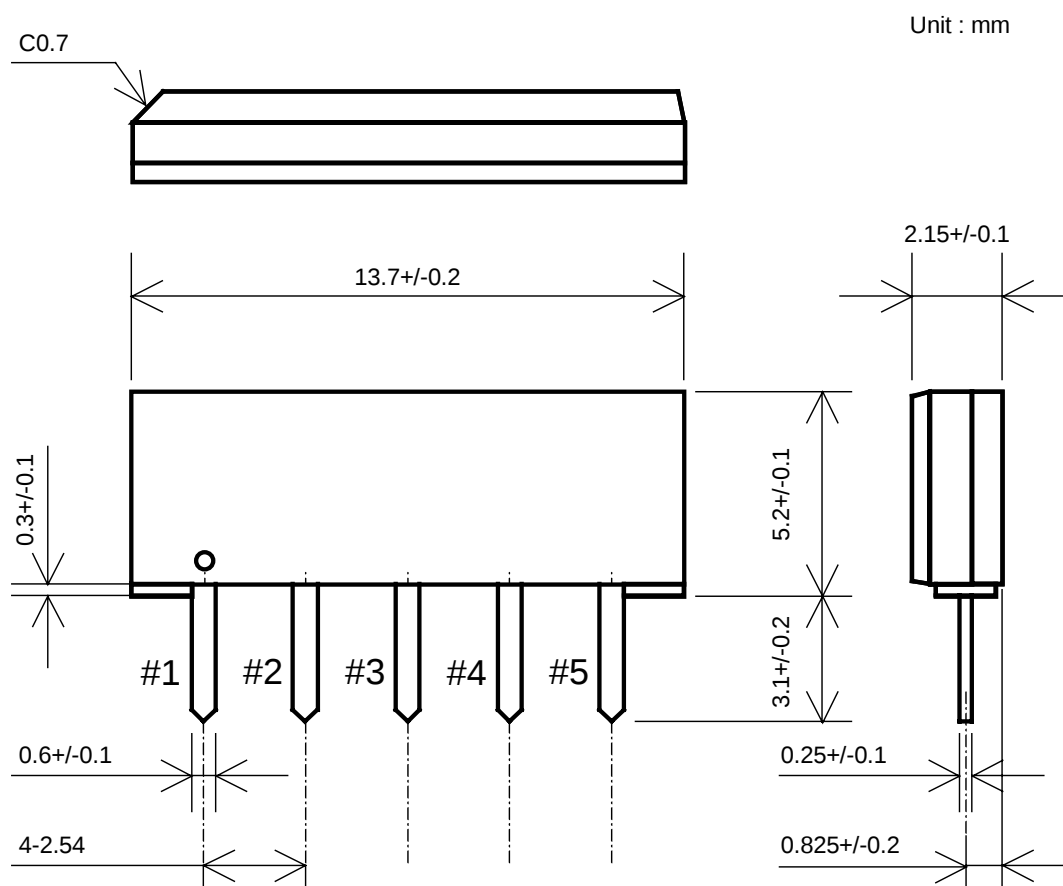
|                  |                                                          |                               |              |
|------------------|----------------------------------------------------------|-------------------------------|--------------|
| Customer Name    | <b>Standard specification</b>                            | FUJITSU MEDIA DEVICES LIMITED |              |
| Application      | IF Filter for<br>Digital Cable<br>Digital Terrestrial TV |                               |              |
| Center Frequency | 44.00 MHz                                                | DATE                          | Jun. 27 2003 |
| FMD Part Number  | SBF0408LPL                                               | Version 1.3                   |              |

**Table 1 Electrical Specification (Ta=25(45)°C)**

| Items                       | Conditions                               | Specification |         |      | Unit   | Remarks   |
|-----------------------------|------------------------------------------|---------------|---------|------|--------|-----------|
|                             |                                          | Min.          | Typ.    | Max. |        |           |
| Center frequency            |                                          | —             | (44.00) | —    | MHz    |           |
| Insertion Loss              | 44.060(44.000) MHz                       | 15.0          | 16.5    | 18.0 | dB     |           |
| Pass bandwidth              | 1 dB                                     | —             | 7.5     | —    | MHz    |           |
|                             | 3 dB                                     | —             | 8.0     | —    | MHz    |           |
|                             | 30 dB                                    | —             | 9.5     | —    | MHz    |           |
| Relative level              | 38.960(38.900) MHz                       | —             | -48     | -38  | dB     |           |
|                             | 40.260(40.200) MHz                       | - 2.2         | - 1.5   | —    | dB     |           |
|                             | 44.060(44.000) MHz                       | —             | 0       | —    | dB     | Reference |
|                             | 47.860(47.800) MHz                       | - 2.2         | - 1.3   | —    | dB     |           |
|                             | 48.258(48.198) MHz                       | —             | - 6.5   | —    | dB     |           |
|                             | 48.960(48.900) MHz                       | —             | -38     | -30  | dB     |           |
|                             | 32.560 ~ 38.810<br>(32.500 ~ 38.750) MHz | —             | -45     | -33  | dB     |           |
|                             | 50.810 ~ 57.560<br>(50.750 ~ 57.500) MHz | —             | -44     | -33  | dB     |           |
| Amplitude ripple<br>(p-p)   | 40.560 ~ 47.560<br>(40.500 ~ 47.500) MHz | —             | 0.6     | 1.0  | dB     |           |
| Group delay ripple<br>(p-p) | 40.260 ~ 47.860<br>(40.200 ~ 47.800) MHz | —             | 37      | 70   | ns     |           |
| Input Capacitance           | Cin (1.0 MHz)                            | —             | 17.3    | —    | pF     |           |
| Output Capacitance          | Cout (1.0 MHz)                           | —             | 4.7     | —    | pF     |           |
| Temperature coefficient     |                                          | —             | -72     | —    | ppm/°C |           |

|                  |                                                          |                               |              |
|------------------|----------------------------------------------------------|-------------------------------|--------------|
| Customer Name    | <b>Standard specification</b>                            | FUJITSU MEDIA DEVICES LIMITED |              |
| Application      | IF Filter for<br>Digital Cable<br>Digital Terrestrial TV |                               |              |
| Center Frequency | 44.00 MHz                                                | DATE                          | Jun. 27 2003 |
| FMD Part Number  | SBF0408LPL                                               | Version 1.3                   |              |

● **Dimensions**



**Fig.1**

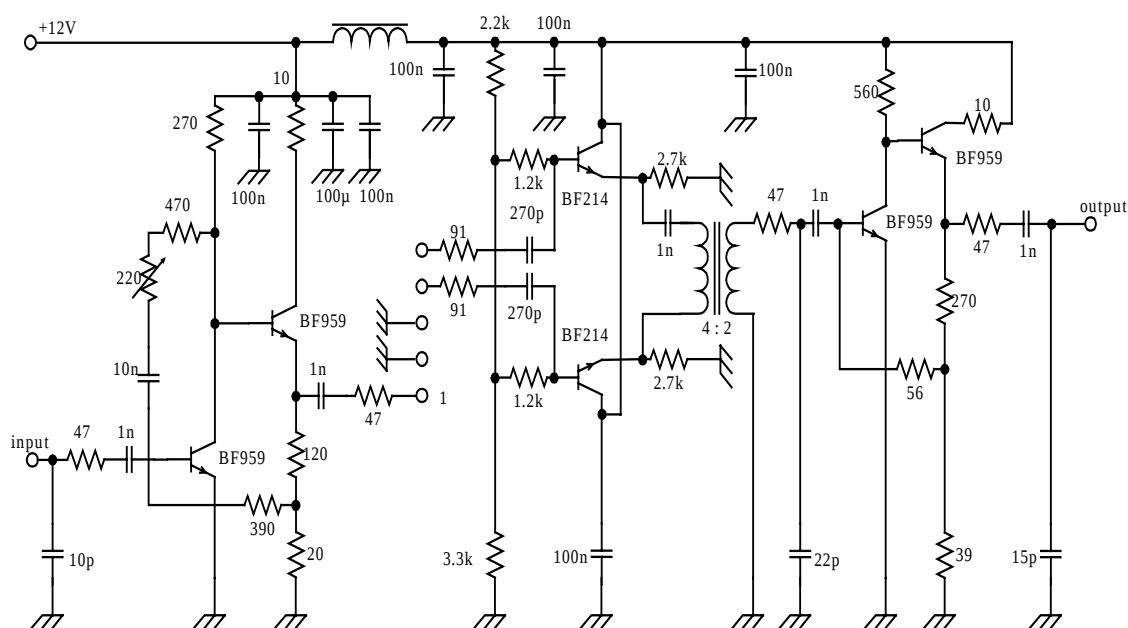
● **Pin Configuration**

**Table 2**

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

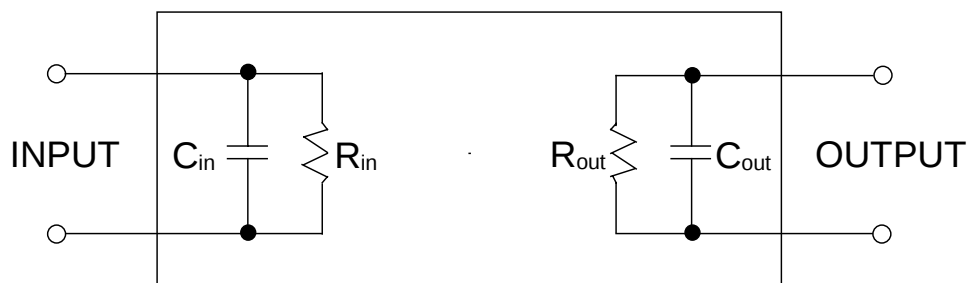
|                  |                                                          |                               |              |
|------------------|----------------------------------------------------------|-------------------------------|--------------|
| Customer Name    | Standard specification                                   | FUJITSU MEDIA DEVICES LIMITED |              |
| Application      | IF Filter for<br>Digital Cable<br>Digital Terrestrial TV |                               |              |
| Center Frequency | 44.00 MHz                                                | DATE                          | Jun. 27 2003 |
| FMD Part Number  | SBF0408LPL                                               | Version 1.3                   |              |

### ● Evaluation Circuit



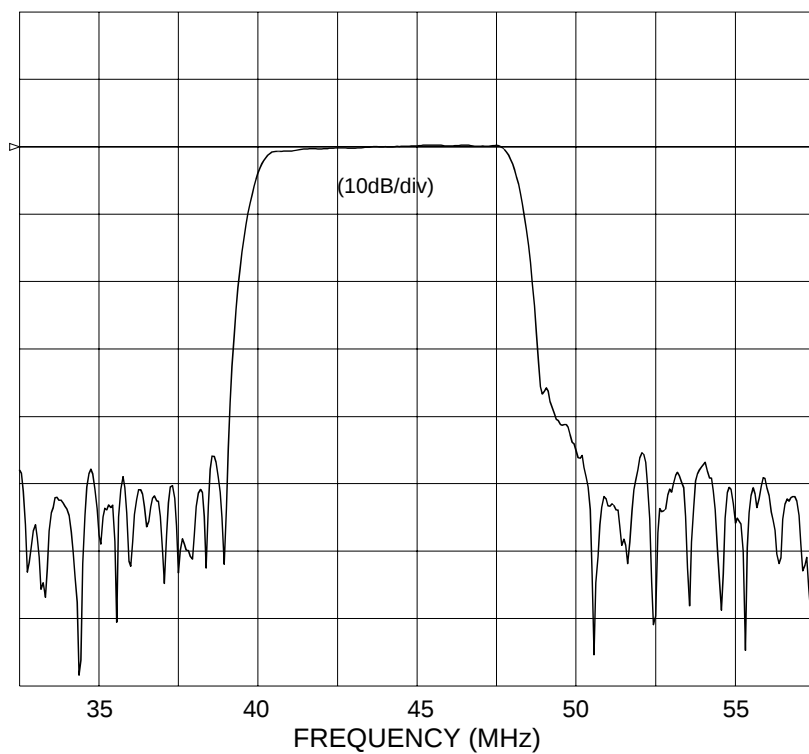
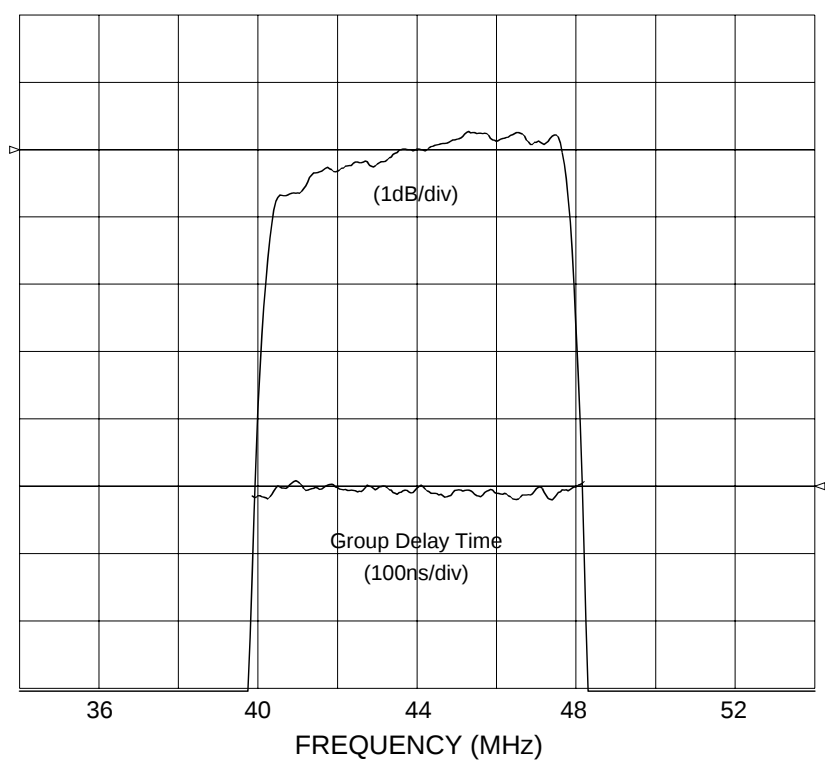
**Fig.2 Evaluation circuit**

### ● Equivalent Circuit



**Fig.3 Equivalent circuit**

|                  |                                                          |                               |              |
|------------------|----------------------------------------------------------|-------------------------------|--------------|
| Customer Name    | Standard specification                                   | FUJITSU MEDIA DEVICES LIMITED |              |
| Application      | IF Filter for<br>Digital Cable<br>Digital Terrestrial TV |                               |              |
| Center Frequency | 44.00 MHz                                                | DATE                          | Jun. 27 2003 |
| FMD Part Number  | SBF0408LPL                                               | Version 1.3                   |              |

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