

|                  |                               |                               |              |
|------------------|-------------------------------|-------------------------------|--------------|
| Customer Name    | <b>Standard specification</b> | FUJITSU MEDIA DEVICES LIMITED |              |
| Application      | IF Filter for Terrestrial-TV  |                               |              |
| System           | Japan (3SEG)                  |                               |              |
| Center Frequency | 57.00 MHz                     | DATE                          | Jun. 27 2003 |
| FMD Part Number  | SBF0601CPL                    | Version 1.1                   |              |

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

| Items                       | Conditions          | Specification |       |      | Unit   | Remarks   |
|-----------------------------|---------------------|---------------|-------|------|--------|-----------|
|                             |                     | Min.          | Typ.  | Max. |        |           |
| Center Frequency            |                     | —             | 57.00 | —    | MHz    |           |
| Insertion Loss              | 57.00 MHz           | 21.1          | 22.6  | 24.1 | dB     |           |
| Relative level              | 47.000 ~ 53.500 MHz | —             | -44   | -39  | dB     |           |
|                             | 55.500 MHz          | —             | -24   | -18  | dB     |           |
|                             | 56.357 MHz          | -1.2          | -0.4  | —    | dB     |           |
|                             | 57.000 MHz          | —             | 0     | —    | dB     | Reference |
|                             | 57.643 MHz          | -1.2          | -0.6  | —    | dB     |           |
|                             | 58.024 MHz          | —             | -4.6  | -3.0 | dB     |           |
|                             | 58.405 MHz          | —             | -20   | -15  | dB     |           |
|                             | 61.096 MHz          | —             | -50   | -40  | dB     |           |
|                             | 64.549 MHz          | —             | -50   | -40  | dB     |           |
|                             | 60.250 ~ 67.000 MHz | -             | -40   | -35  | dB     |           |
| Amplitude ripple<br>(p-p)   | 56.357 ~ 57.643 MHz | -             | 0.7   | -    | dB     |           |
| Group delay ripple<br>(p-p) | 56.357 ~ 57.643 MHz | —             | 30    | —    | ns     |           |
| Input Capacitance           | Cin (1.0 MHz)       | —             | 28.0  | —    | pF     |           |
| Output Capacitance          | Cout (1.0 MHz)      | —             | 10.6  | —    | pF     |           |
| Temperature coefficient     |                     | —             | -18   | —    | ppm/°C |           |

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## ● Dimensions

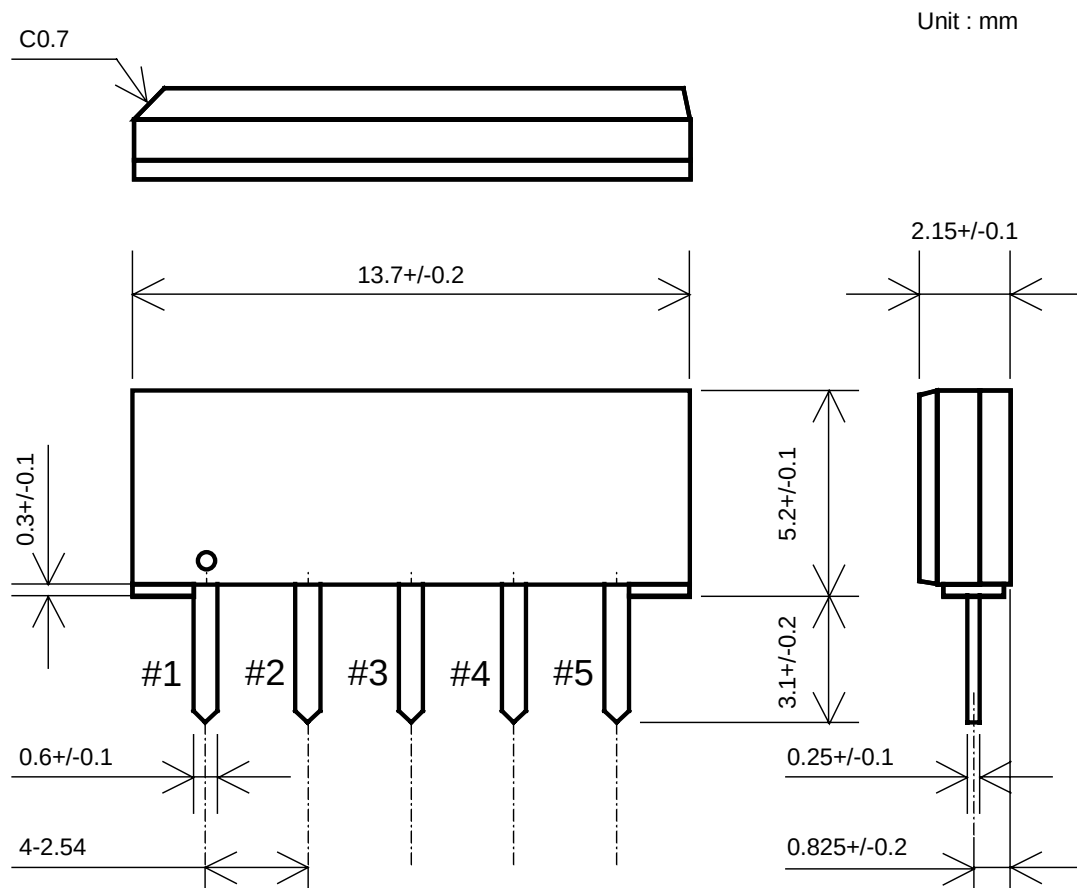


Fig.1

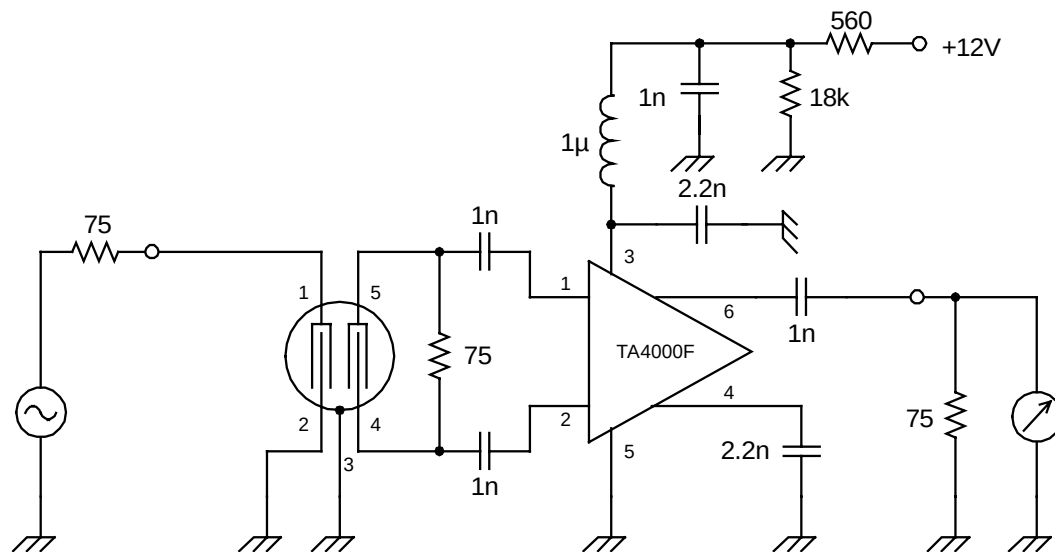
## ● Pin Configuration

Table 2

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

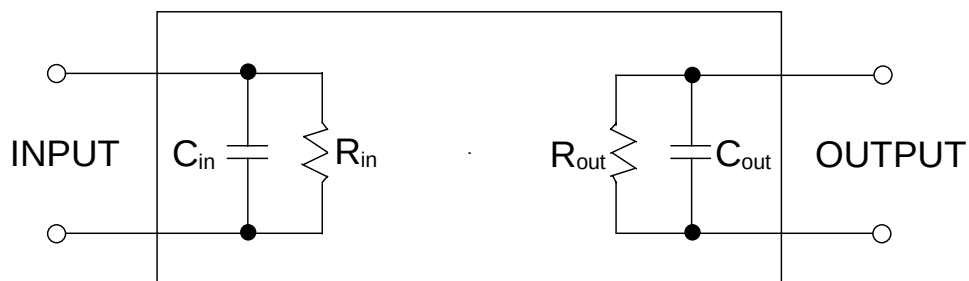
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- **Evaluation Circuit**



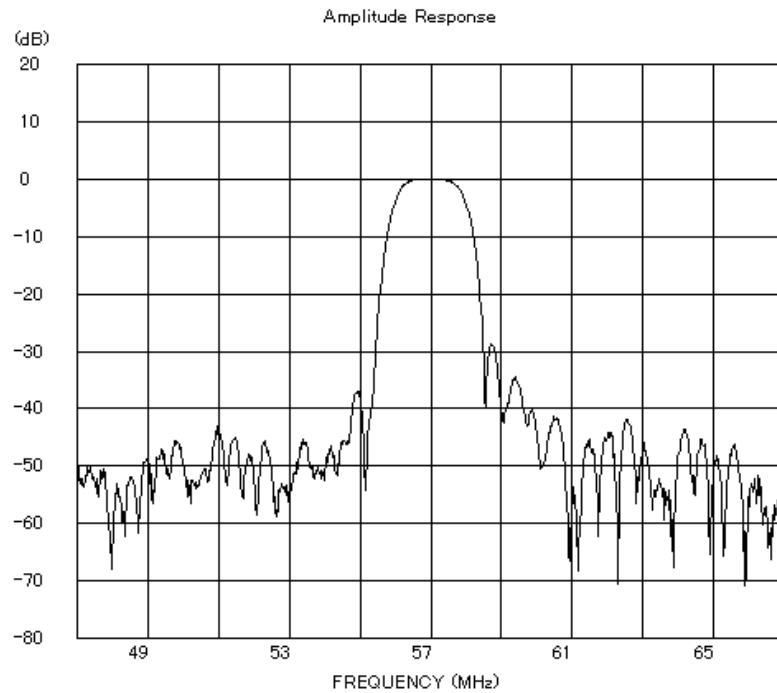
**Fig.2 Evaluation circuit**

- **Equivalent Circuit**

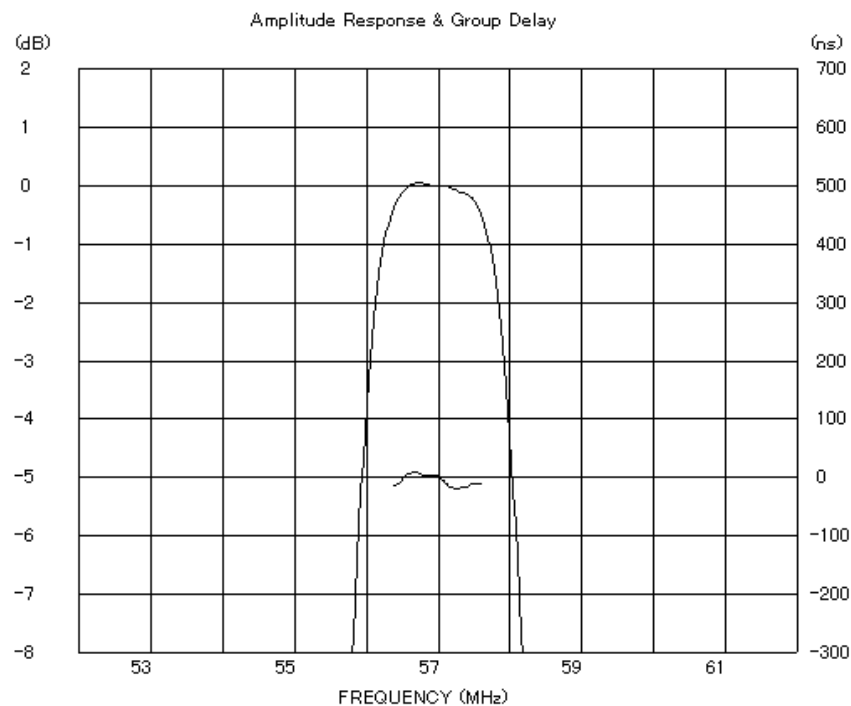


**Fig.3 Equivalent circuit**

|                  |                               |                               |              |
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### Frequency Characteristics



### In-band Characteristics