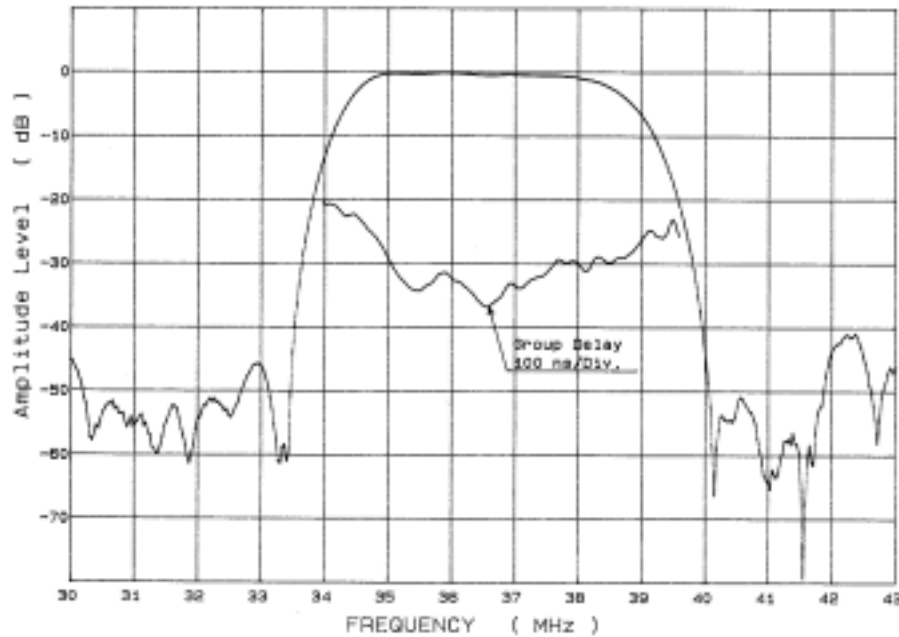


# TSF5315U2

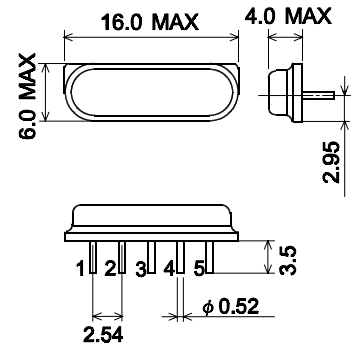
APPLICATION : IF Filter for Video

IF : 38.9 MHz  
SYSTEM : B/G

## Amplitude and Group Delay Response



## Package ( U type )



Unit : mm

## ELECTRIC CHARACTERISTICS (Ta = 25 °C)

· Drive Impedance : 50  $\Omega$  · Load Impedance : 1.2 k  $\Omega$  || 5 pF

| CHARACTERISTICS                         | Freq.<br>(MHz)     | SPECIFICATIONS |       |       | Unit          |
|-----------------------------------------|--------------------|----------------|-------|-------|---------------|
|                                         |                    | Upper          | Nom.  | Lower |               |
| 1 Amplitude Response<br>Ref. : 37.4 MHz | 41.4               | -42            | -53   |       | (dB)          |
|                                         | 40.4               | -44            | -55   |       |               |
|                                         | 40.16              | -41            | -50   |       |               |
|                                         | 38.9               | -4.2           | -5.2  | -6.2  |               |
|                                         | 34.47              | -1.9           | -2.9  | -3.9  |               |
|                                         | 33.4               | -44            | -53   |       |               |
|                                         | 32.4               | -45            | -55   |       |               |
|                                         | 31.9               | -45            | -55   |       |               |
| 2 Spurious Response                     | 25.0 ~ 30.9        | -38            | -45   |       | (dB)          |
|                                         | 41.4 ~ 45.0        | -35            | -42   |       |               |
| 3 Group Delay<br>Ref. : 38.9 MHz        | 36.9               |                | -60   |       | (ns)          |
|                                         | 34.47              |                | 50    |       |               |
| 4 Insertion Loss                        | 37.4               |                | -15.4 | -17.4 | (dB)          |
| 5 Temperature Coefficient               |                    |                | -72   |       | ppm/ °C       |
| 6                                       | Input Capacitance  | 1.0            | 11.0  |       | (pF)          |
|                                         | Input Resistance   | 37.4           | 1.1   |       | (K $\Omega$ ) |
|                                         | Output Capacitance | 1.0            | 6.1   |       | (pF)          |
|                                         | Output Resistance  | 37.4           | 6.8   |       | (K $\Omega$ ) |

## Pin Connection

| NO. | FUNCTION    |
|-----|-------------|
| 1   | INPUT(HIGH) |
| 2   | INPUT(LOW)  |
| 3   | GND         |
| 4   | OUTPUT      |
| 5   | OUTPUT      |

## Equivalent Circuit

