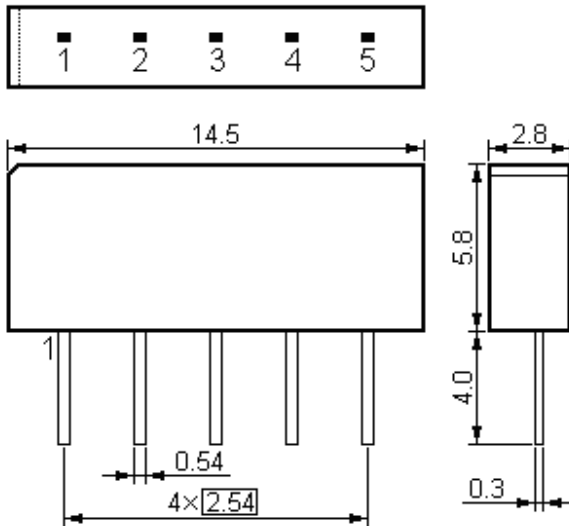


**Features**

- IF filter for digital cable TV
- Plastic Package

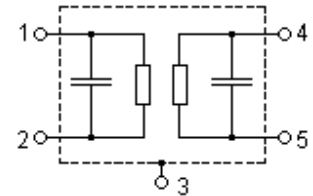
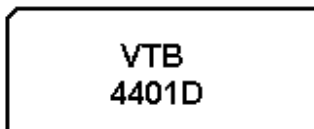
**Package Dimension Configuration**



- Pin**
- 1 Input
  - 2 Input - ground
  - 3 Chip carrier - ground
  - 4 Output
  - 5 Output

Plastic Package **SIP5D**  
Unit: mm

**Marking**



**Performance**

Maximum Ratings

		Rating	Value	Unit
Operable	Temperature	Range	-25 to +65	
$T_A$				
Storage	Temperature	Range	-40 to +85	
$T_{stg}$				
DC	Voltage	(between any terminals)	5	V
$V_{DC}$				
AC	Voltage	(between any terminals)	10	V
$V_{PP}$				

## Electronic Characteristics

Reference temperature:  $T_A = 25 (45) ^\circ\text{C}$ Terminating source impedance:  $Z_S = 50 \Omega$ Terminating load impedance:  $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$ 

Item		min.	typ.	max.	Unit
<b>Center frequency</b> (Center between 3 dB points)	$f_C$	—	(44.00)	—	MHz
<b>Insertion attenuation</b>	$IL$				
Reference level for the following data	44.06 (44.00) MHz	13.2	14.7	16.2	dB
<b>Pass bandwidth</b>					
$\alpha_{\text{rel}} \leq 3 \text{ dB}$	$BW_{3\text{dB}}$	—	6.0	—	MHz
$\alpha_{\text{rel}} \leq 30 \text{ dB}$	$BW_{30\text{dB}}$	—	7.7	—	MHz
<b>Amplitude ripple</b>	$\Delta\alpha$				
	41.53 ... 46.59 MHz	—	0.5	—	dB
<b>Relative attenuation</b>	$\alpha_{\text{rel}}$				
	41.53 (41.47) MHz	—	0.8	—	dB
	46.59 (46.53) MHz	—	0.5	—	dB
	41.06 (41.00) MHz	2.0	3.2	4.4	dB
	47.06 (47.00) MHz	1.2	2.4	3.6	dB
	47.31 (47.25) MHz	—	8.3	—	dB
	39.81 (39.75) MHz	30.0	40.0	—	dB
Lower sidelobe					
	35.06 ... 39.46 (35.00 ... 39.40) MHz	36.0	43.0	—	dB
	39.46 ... 40.06 (39.40 ... 40.00) MHz	32.0	40.0	—	dB
Upper sidelobe					
	48.06 ... 50.06 (48.00 ... 50.00) MHz	30.0	35.0	—	dB
	50.06 ... 55.06 (50.00 ... 55.00) MHz	31.0	42.0	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
	41.53 ... 46.59 MHz	—	30	—	ns
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K

Frequency Response

