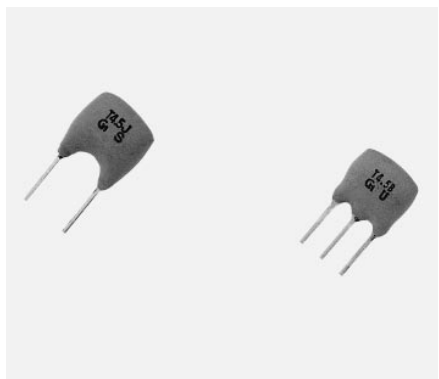


# FILTERS

## TRAPS FOR TV/VCR APPLICATIONS HIGH ATTENUATION TPS□MJ/MB, TPWA, TPT SERIES



The TPS MJ/MB lines of ceramic traps are band reject filters used for video and sound IF attenuation. The 2 terminal TPS MJ Series can be used to attenuate either the sound signal in B/W receivers or the chroma signal in video. The 3 terminal TPS MB Series contains 2 trap elements on one substrate for additional attenuation. This line of traps can be used in the sound IF of CATV/VCR receivers.

### FEATURES

#### TPS□MJ

- Small size, lightweight

- High performance, high durability

#### TPS□MB

- Good performance of attenuation
- Shape factor can be changed by the value of inductance "L"
- 3-terminal type

#### TPWA

- Recommended for Multi standard set

#### TPT

- Good performance of attenuation
- Space saving
- 3-terminal type

### DIMENSIONS: mm

| TPS□MB SERIES | TPS□MJ SERIES | TPS3.58MJ | TPWA SERIES | TPT SERIES |
|---------------|---------------|-----------|-------------|------------|
|               |               |           |             |            |

### SPECIFICATIONS

| Part Number | Nominal Center Frequency (fn) | Attenuation at fn (dB) min. | 20dB Attenuation Bandwidth (kHz) min. | Spurious Response (0 ~ fn) (dB) max. |
|-------------|-------------------------------|-----------------------------|---------------------------------------|--------------------------------------|
| ★TPS4.5MJ   | 4.5MHz                        | 20 (30)                     | 30 (50)                               | 0.5 (0)                              |
| ★TPS5.5MJ   | 5.5MHz                        | 20 (30)                     | 30 (60)                               | 0.5 (0)                              |
| ★TPS6.0MJ   | 6.0MHz                        | 20 (30)                     | 40 (70)                               | 0.5 (0)                              |
| TPS6.5MJ    | 6.5MHz                        | 20 (30)                     | 40 (90)                               | 0.5 (0)                              |
| ★TPS3.58MJ  | 3.58MHz                       | 20 (27)                     | 20 (30)                               | 0.5 (0)                              |
| TPS4.43MJ   | 4.43MHz                       | 20 (30)                     | 40 (50)                               | 0.5 (0)                              |

The level at 1 MHz shall be made for a reference (0dB).

( ) Typical value

| Part Number | Nominal Center Frequency (fn) | Attenuation at fn (dB) min. | 30dB Attenuation Bandwidth (kHz) min. | Spurious Response (0 ~ fn) (dB) max. |
|-------------|-------------------------------|-----------------------------|---------------------------------------|--------------------------------------|
| ★TPS4.5MB2  | 4.5MHz                        | 35 (45)                     | 50 (80)                               | 0.5 (0)                              |
| TPS5.74MB2▼ | 5.742MHz                      | 35 (45)                     | 70 (120)                              | 0.5 (0)                              |
| ★TPS□MB     | 5.5 ~ 6.5MHz                  | 35 (45)                     | 70 (120)                              | 0.5 (0)                              |
| TPSS.5MWA▼  | 5.5MHz                        | 32 (45)                     | 70 (130)                              | 0.5 (0)                              |
|             | 5.742MHz                      | 25 (33)                     | —                                     |                                      |

The level at 1 MHz shall be made for a reference (0dB).

Other frequencies (3.58, 4.43 MHz) are also available.

6.0mm height type (TPS□MB) is also available.

( ) Typical value

| Part Number | Nominal Center Frequency |          | Attenuation at fn (dB) min. | 30dB Attenuation Bandwidth (kHz) min. |          | Spurious Response (0 ~ 5MHz) (dB) max. |
|-------------|--------------------------|----------|-----------------------------|---------------------------------------|----------|----------------------------------------|
|             | fn1                      | fn2      |                             | fn1                                   | fn2      |                                        |
| TPWA01B     | 6.0MHz                   | 6.5MHz   | 30 (45)                     | 70 (100)                              | 70 (120) | 0.5 (0)                                |
| TPWA02B     | 5.5MHz                   | 6.5MHz   | 30 (45)                     | 50 (80)                               | 50 (120) | 0.5 (0)                                |
| TPWA03B     | 5.5MHz                   | 6.0MHz   | 30 (45)                     | 50 (80)                               | 50 (100) | 0.5 (0)                                |
| TPWA04B     | 5.5MHz                   | 5.742MHz | 30 (45)                     | 50 (80)                               | 50 (100) | 0.5 (0)                                |

The hole diameter of printed circuit board should be  $\phi$ 1.0mm.

( ) Typical value

| Part Number | Nominal Center Frequency |        |        | Attenuation at fn (dB) min. | 30dB Attenuation Bandwidth (kHz) min. |         |          | Spurious Response (0 ~ 5MHz) (dB) max. |
|-------------|--------------------------|--------|--------|-----------------------------|---------------------------------------|---------|----------|----------------------------------------|
|             | fn1                      | fn2    | fn3    |                             | fn1                                   | fn2     | fn3      |                                        |
| TPT01B      | 5.5MHz                   | 6.0MHz | 6.5MHz | 30 (45)                     | 50 (80)                               | 50 (90) | 50 (100) | 0.5 (0)                                |

The hole diameter of printed circuit board should be  $\phi$ 1.0mm.

( ) Typical value

### PART NUMBERING SYSTEM

|        |                         |                          |
|--------|-------------------------|--------------------------|
| TPS    | 4.5M                    | B2                       |
| SERIES | CENTER FREQUENCY in MHz | INDIVIDUAL SPECIFICATION |

★Available as standard through authorized Murata Electronics Distributors. ▲Applicable in North American market only. ▼Applicable in European market only.

For more detailed information regarding this product line in North America, see Catalog No. P-05-D. To receive additional information on Murata Products call 1-800-831-9172.

For more detailed information regarding this product line in Europe, see Catalog No. P25E-2.