



# *SAW Components*

*Data Sheet M 9352 M*

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, glowing globe and circuitry patterns, suggesting a high-tech or electronic theme.



## SAW Components

M 9352 M

## IF Filter for Audio Applications

45,75 MHz

### Data Sheet

#### Standard

Plastic package **SIP5K**

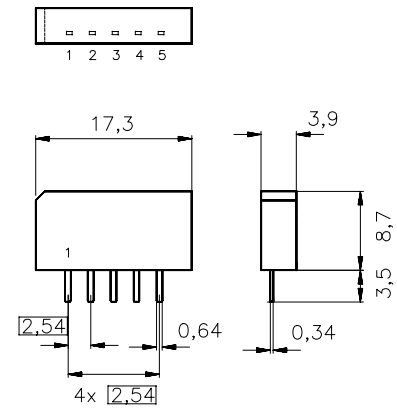
■ M/N

#### Features

- TV IF audio filter with pass band for sound carrier at 41,25 MHz

#### Terminals

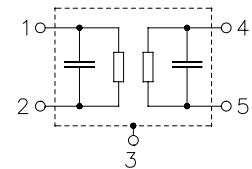
- Tinned CuFe alloy



Dimensions in mm, approx. weight 1,0 g

#### Pin configuration

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



| Type     | Ordering code     | Marking and package according to | Packing according to |
|----------|-------------------|----------------------------------|----------------------|
| M 9352 M | B39458-M9352-M100 | C61157-A1-A15                    | F61074-V8067-Z000    |

#### Maximum ratings

|                            |           |         |    |                       |
|----------------------------|-----------|---------|----|-----------------------|
| Operable temperature range | $T_A$     | -25/+65 | °C |                       |
| Storage temperature range  | $T_{stg}$ | -40/+85 | °C |                       |
| DC voltage                 | $V_{DC}$  | 12      | V  | between any terminals |
| AC voltage                 | $V_{pp}$  | 10      | V  | between any terminals |



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#### Characteristics

Reference temperature:  $T_A = 25\text{ °C}$   
Terminating source impedance:  $Z_S = 50\ \Omega$   
Terminating load impedance:  $Z_L = 50\ \Omega$

|                                               |                     | min. | typ.                 | max. |                           |
|-----------------------------------------------|---------------------|------|----------------------|------|---------------------------|
| <b>Insertion attenuation</b>                  | $\alpha$            |      |                      |      |                           |
| Reference level for the following data        | 41,25 MHz           | 14,9 | 16,4                 | 17,9 | dB                        |
| <b>Relative attenuation</b>                   | $\alpha_{rel}$      |      |                      |      |                           |
|                                               | 40,95 MHz           | 0,5  | 1,5                  | 2,5  | dB                        |
|                                               | 41,55 MHz           | -0,3 | 0,7                  | 1,7  | dB                        |
|                                               | 39,17 MHz           | 40,0 | 54,0                 | —    | dB                        |
| Picture carrier                               | 45,75 MHz           | 46,0 | 59,0                 | —    | dB                        |
| Color carrier                                 | 42,17 MHz           | 20,0 | 28,0                 | —    | dB                        |
| Adjacent picture carrier                      | 39,75 MHz           | 40,0 | 45,0                 | —    | dB                        |
| Adjacent sound carrier                        | 47,25 MHz           | 46,0 | 62,0                 | —    | dB                        |
| Lower sidelobe                                | 35,00 ... 39,75 MHz | 36,0 | 41,0                 | —    | dB                        |
| Upper sidelobe                                | 45,75 ... 55,00 MHz | 42,0 | 52,0                 | —    | dB                        |
| <b>Group delay ripple (p-p)</b>               | $\Delta\tau$        | —    | 90                   | —    | ns                        |
| <b>Impedance at 41,25 MHz</b>                 |                     |      |                      |      |                           |
| Input: $Z_{IN} = R_{IN} \parallel C_{IN}$     |                     | —    | 0,1 $\parallel$ 24,2 | —    | k $\Omega$ $\parallel$ pF |
| Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$ |                     | —    | 1,2 $\parallel$ 8,3  | —    | k $\Omega$ $\parallel$ pF |
| <b>Temperature coefficient of frequency</b>   | $TC_f$              | —    | -72                  | —    | ppm/K                     |



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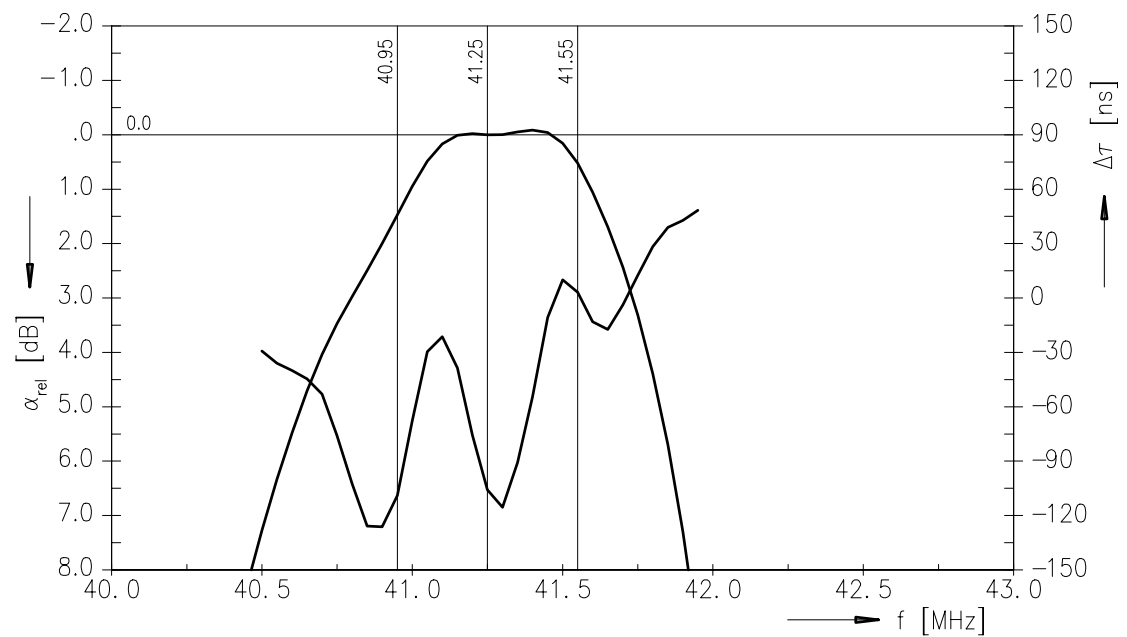
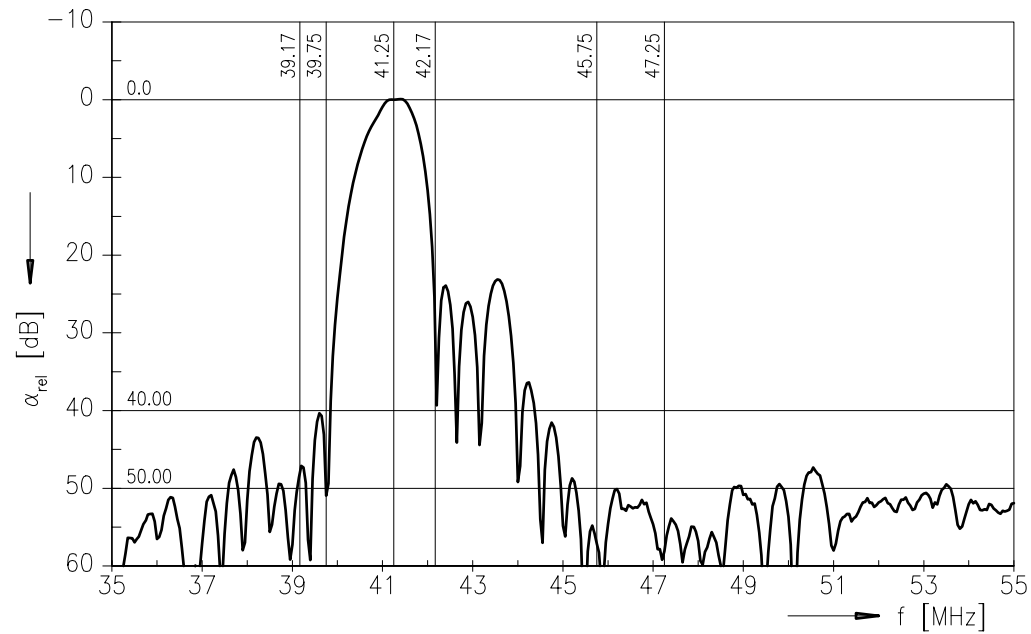
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Frequency response





|                                         |                  |
|-----------------------------------------|------------------|
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