



# SAW Components

Data Sheet M 9370 M





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## IF Filter for Audio Applications

45,75 MHz

### Data Sheet

#### Standard

Plastic package SIP5K

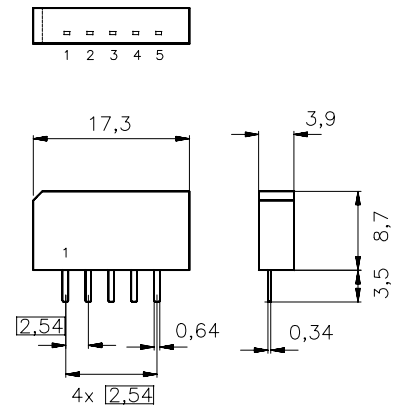
■ M/N

#### Features

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

#### Terminals

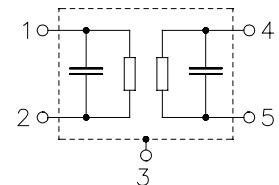
- Tinned CuFe alloy



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 9370 M	B39458-M9370-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	$V_{DC}$	5	V	between any terminals
AC voltage	$V_{pp}$	10	V	between any terminals



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#### Characteristics

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

		min.	typ.	max.	
<b>Insertion attenuation</b>					
Reference level for the following data	41,31 (41,25) MHz $\alpha$	6,3	7,8	9,3	dB
<b>Relative attenuation</b> $\alpha_{\text{rel}}$					
Picture carrier	45,81 (45,75) MHz	44,0	57,0	—	dB
Color carrier	42,23 (42,17) MHz	25,0	33,0	—	dB
Adjacent picture carrier	39,81 (39,75) MHz	45,0	56,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	44,0	54,0	—	dB
Lower sidelobe					dB
35,06.....39,81 (35,00.....39,75) MHz		42,0	51,0	—	dB
Upper sidelobe					dB
45,81.....55,06 (45,75.....55,00) MHz		40,0	45,0	—	dB
<b>Group delay ripple (p-p)</b> $\Delta\tau$					
		—	50	—	ns
<b>Impedance at 41,31 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	0,4 $\parallel$ 14,7	—	k $\Omega$ $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	1,0 $\parallel$ 3,6	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b> $TC_f$					
		—	-72	—	ppm/K



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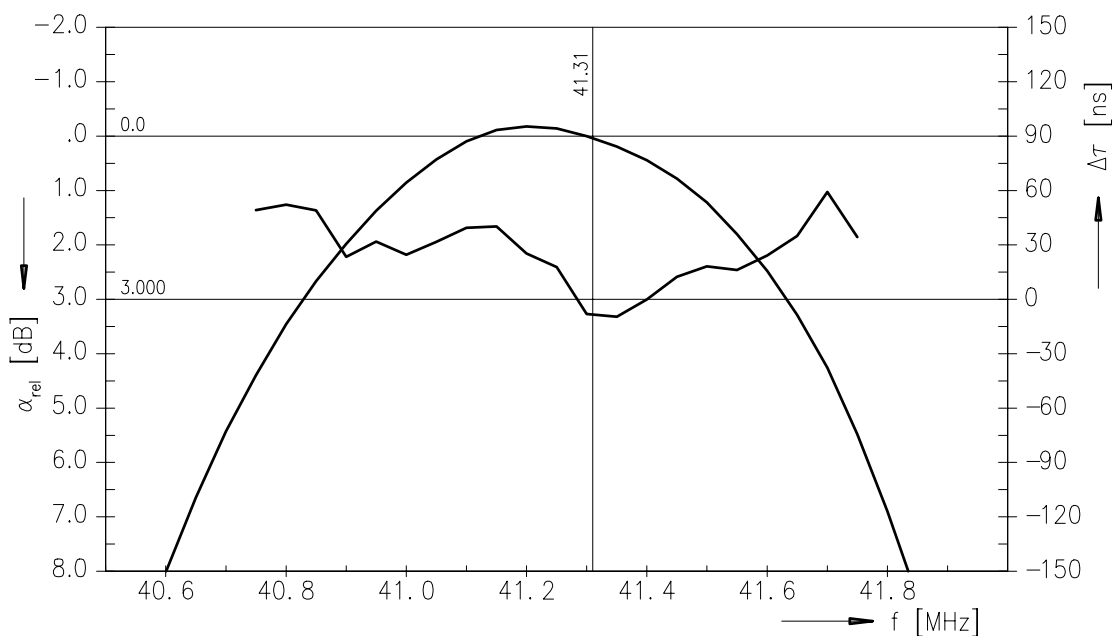
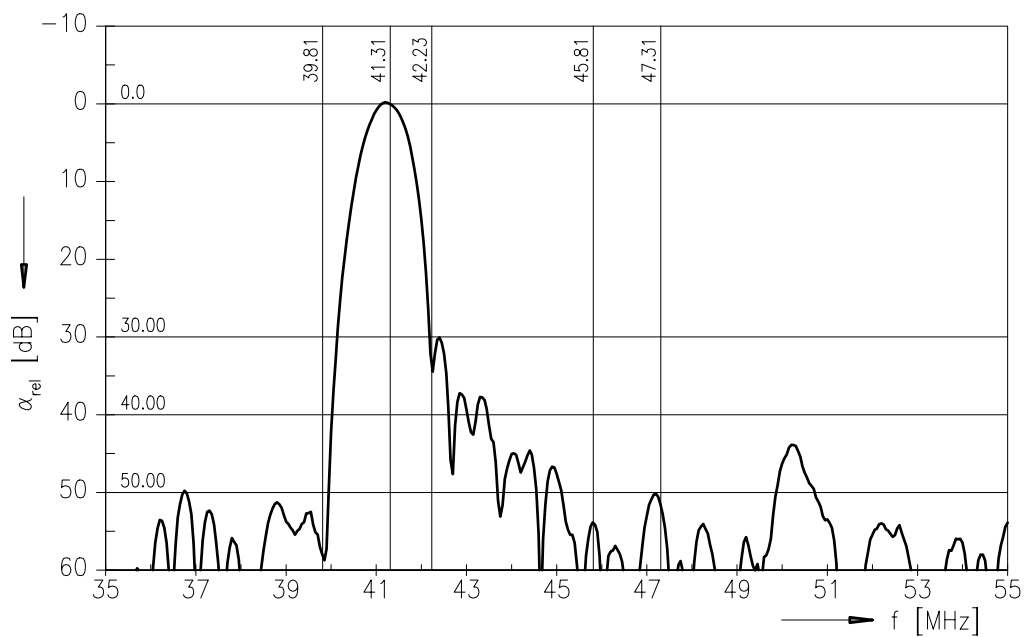
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### Frequency response





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