



# SAW Components

Data Sheet G 9251 M





## SAW Components

G 9251 M

## IF Filter for Audio Applications

38,90 MHz

### Data Sheet

#### Standard

- B/G
- L

Plastic package **SIP5K**

#### Features

- TV IF audio filter with two passbands for picture and sound carrier
- Sound carriers at 33,40 MHz (B/G) and 33,05 MHz (B/G, L NICAM)

#### Terminals

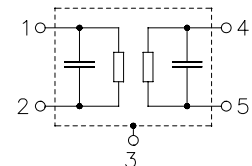
- Tinned CuFe alloy



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
G 9251 M	B39389-G9251-M100	C61157-A1-A15	F61074-V8067-Z000

#### Maximum ratings

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



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#### Characteristics

Reference temperature:

$$T_A = 25\text{ °C}$$

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> $\alpha$					
Reference level for the following data	38,90 MHz	16,9	18,4	19,9	dB
<b>Relative attenuation</b> $\alpha_{\text{rel}}$					
Sound carrier	33,40 MHz	0,1	1,1	2,1	dB
	33,05 MHz	-1,4	-0,4	0,6	dB
	32,90 MHz	-0,7	0,3	1,3	dB
Color carrier	34,47 MHz	26,0	40,0	—	dB
Adjacent picture carrier	30,90 MHz	38,0	47,0	—	dB
	31,90 MHz	38,0	48,0	—	dB
Adjacent sound carrier	40,40 MHz	32,0	41,0	—	dB
	41,40 MHz	34,0	42,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz	34,0	40,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	30,0	38,0	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$	—	50	—	ns
<b>Impedance at 33,40 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1,3 $\parallel$ 10,2	—	k $\Omega$ $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	7,7 $\parallel$ 4,6	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K



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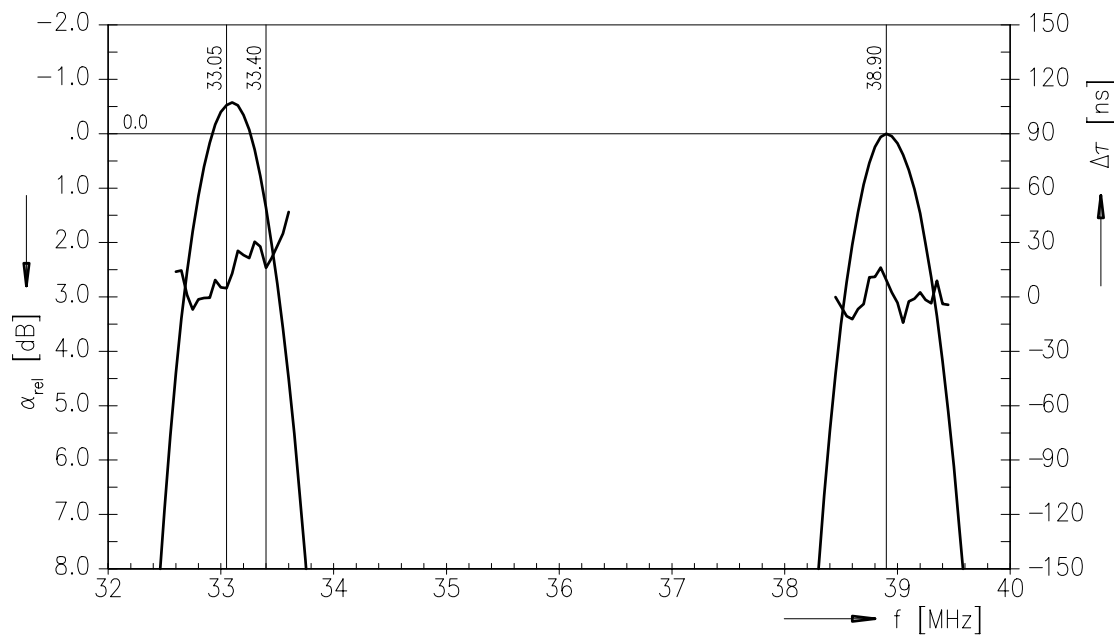
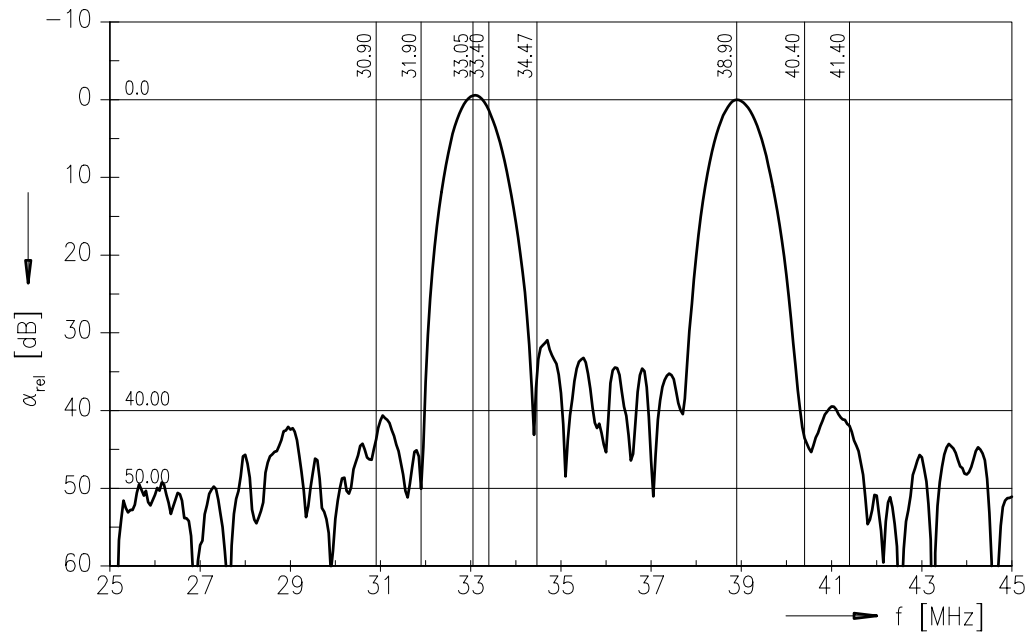
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Frequency response





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