



# SAW multimedia filters

## Series/Type: **K9356M**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39389K9356M100		2011-01-14	2011-09-30	2012-09-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).

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**SAW Components**
**K 9356 M**
**IF Filter for Audio Applications**
**38,90 MHz**
**Data Sheet**
**Standard**

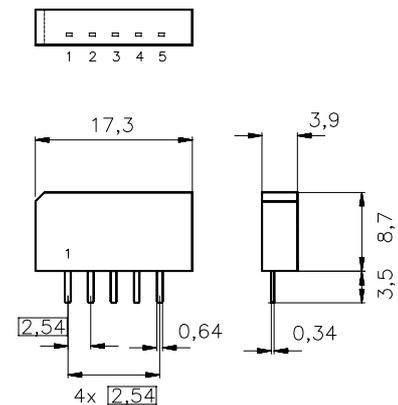
- B/G
- D/K
- I
- L

**Features**

- TV IF audio filter with passband for sound carriers at 32,40 MHz (D/K, L), 32,90 MHz (I) and 33,40 MHz (B/G)

**Terminals**

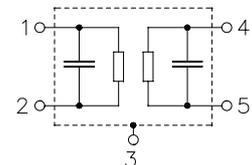
- Tinned CuFe alloy

 Plastic package **SIP5K**


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
K 9356 M	B39389-K9356-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

**Data Sheet**
**Characteristics**

Reference temperature:

$$T_A = 25 \text{ }^\circ\text{C}$$

Terminating source impedance:

$$Z_S = 50 \text{ } \Omega$$

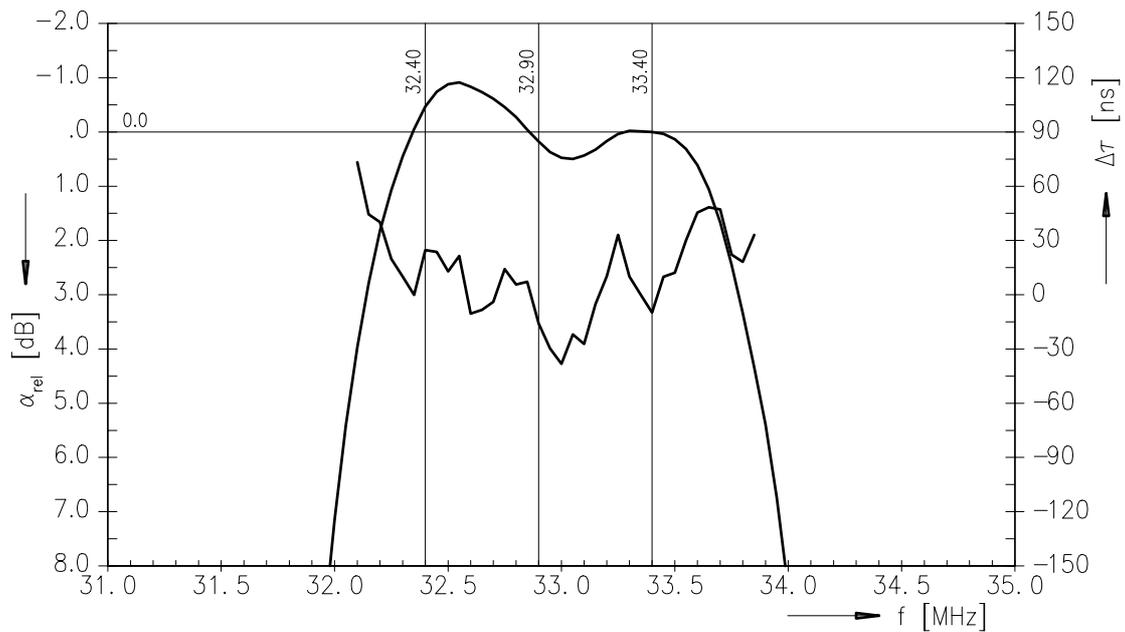
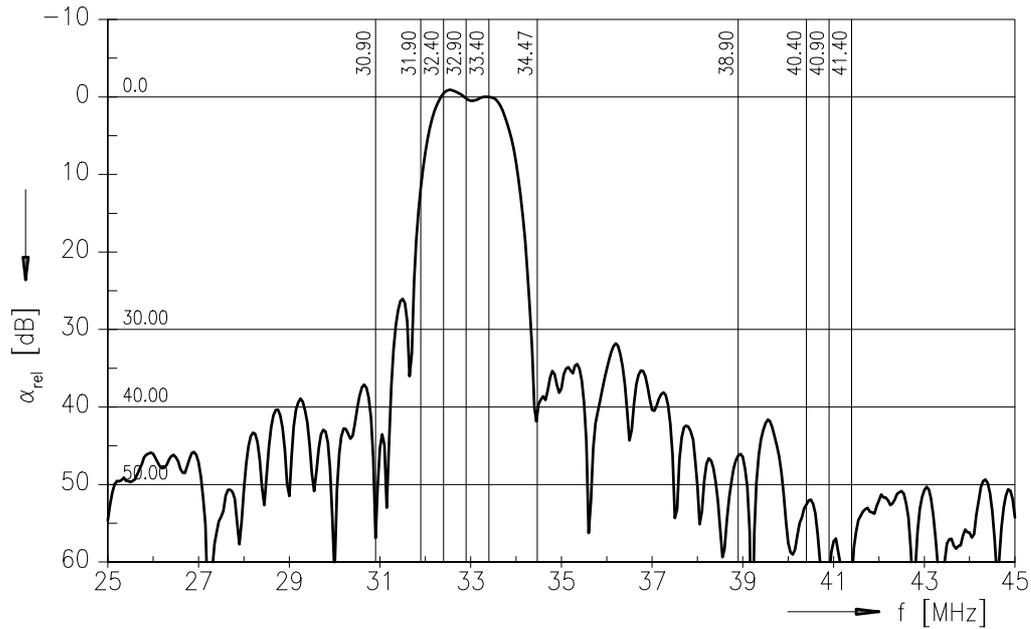
Terminating load impedance:

$$Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Insertion attenuation</b>					
	$\alpha$				
Reference level for the following data	33,40 MHz	9,1	10,6	12,1	dB
<b>Relative attenuation</b>					
	$\alpha_{\text{rel}}$				
Sound carrier	32,40 MHz	-1,4	-0,4	0,6	dB
	32,90 MHz	-0,9	0,1	1,1	dB
	33,05 MHz	-0,5	0,5	1,5	dB
Picture carrier	38,90 MHz	40,0	47,0	—	dB
Color carrier	34,47 MHz	33,0	40,0	—	dB
Adjacent picture carrier	30,90 MHz	40,0	55,0	—	dB
	31,90 MHz	9,5	12,0	—	dB
Adjacent sound carrier	40,40 MHz	46,0	54,0	—	dB
	40,90 MHz	46,0	61,0	—	dB
	41,40 MHz	46,0	60,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	34,0	38,0	—	dB
Upper sidelobe	38,90 ... 75,00 MHz	35,0	41,0	—	dB
<b>Impedance at 33,40 MHz</b>					
	Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$	—	0,7 $\parallel$ 11,6	—	k $\Omega$ $\parallel$ pF
	Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$	—	2,3 $\parallel$ 2,6	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K

Data Sheet

Frequency response



**SAW Components**

**K 9356 M**

**IF Filter for Audio Applications**

**38,90 MHz**

**Data Sheet**

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