



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The following products presented in this data sheet are being withdrawn.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

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

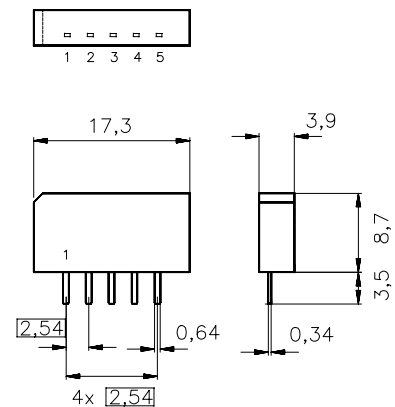
- B/G
- D/K
- I
- L

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

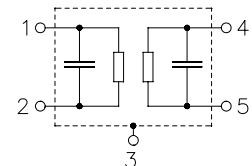
- Tinned CuFe alloy

 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:

$Z_S = 50 \text{ } \Omega$

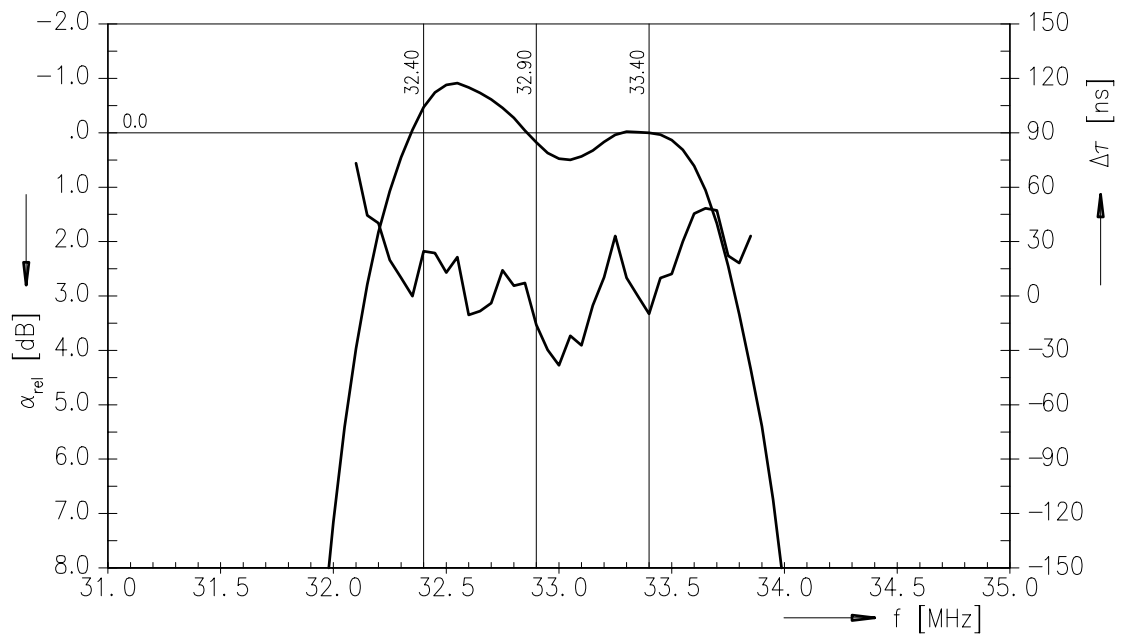
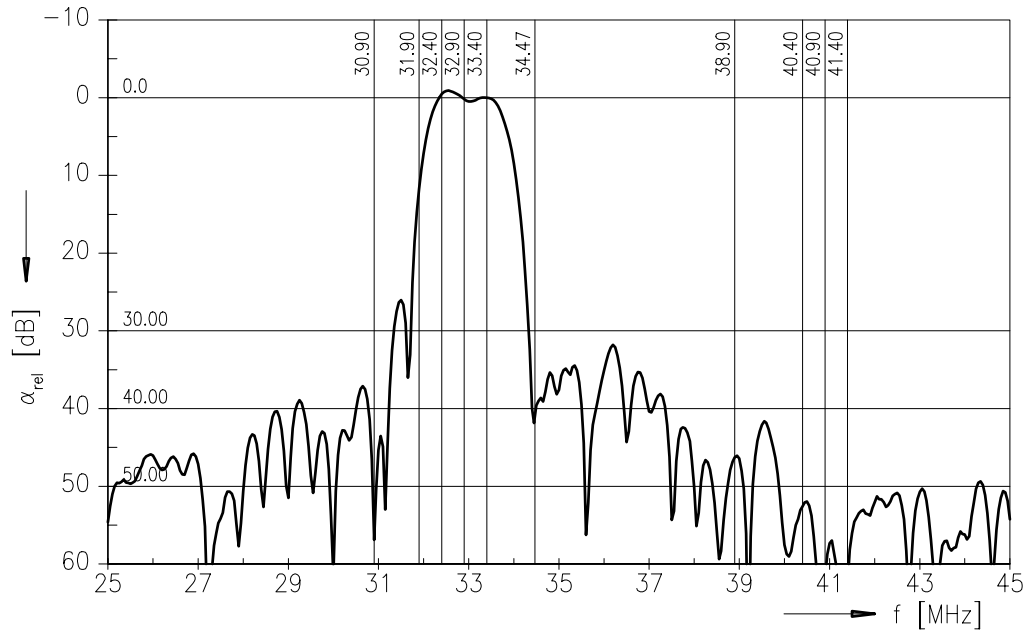
Terminating load impedance:

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

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	33,40 MHz	9,1	10,6	12,1	dB
Relative attenuation					
	α_{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
Impedance at 33,40 MHz					
	Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$	—	0,7 \parallel 11,6	—	k Ω \parallel pF
	Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$	—	2,3 \parallel 2,6	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K

Data Sheet

Frequency response



SAW Components**K 9356 M****IF Filter for Audio Applications****38,90 MHz****Data Sheet****Published by EPCOS AG****Surface Acoustic Wave Components Division, SAW CE MM PD****P.O. Box 80 17 09, D-81617 München**

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