



# SAW multimedia filters

## Series/Type: G9353M

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39389G9353M100		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).



## SAW Components

**G 9353 M**

## IF Filter for Audio Applications

**38,90 MHz**

### Data Sheet

#### Standard

Plastic package **SIP5K**

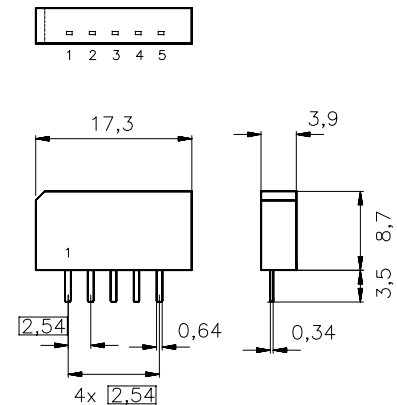
■ B/G

#### Features

- TV IF audio filter with two passbands for sound carrier at 33,40 MHz and 33,05 MHz (NICAM)

#### Terminals

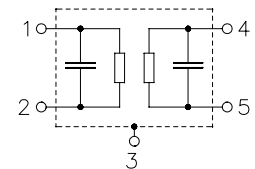
- Tinned CuFe alloy



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 9353 M	B39389-G9353-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



# SAW Components

G 9353 M

## IF Filter for Audio Applications

38,90 MHz

### Data Sheet

#### 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	33,05 MHz	11,6	13,1	14,6	dB
<b>Relative attenuation</b> $\alpha_{\text{rel}}$					
Sound carrier	33,40 MHz	0,4	1,4	2,4	dB
	32,80 MHz	—	0,9	—	dB
Picture carrier	38,90 MHz	40,0	55,0	—	dB
Color carrier	34,47 MHz	26,0	34,0	—	dB
Adjacent picture carrier	30,90 MHz	31,0	36,0	—	dB
	31,90 MHz	33,0	41,0	—	dB
Adjacent sound carrier	40,40 MHz	40,0	55,0	—	dB
	41,40 MHz	40,0	56,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz	30,0	36,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	37,0	46,0	—	dB
<b>Group delay ripple (p-p)</b> $\Delta\tau$					
		—	40	—	ns
<b>Impedance at 33,05 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1,2 $\parallel$ 10,3	—	k $\Omega$ $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	3,4 $\parallel$ 2,9	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b> $TC_f$					
		—	-72	—	ppm/K



SAW Components

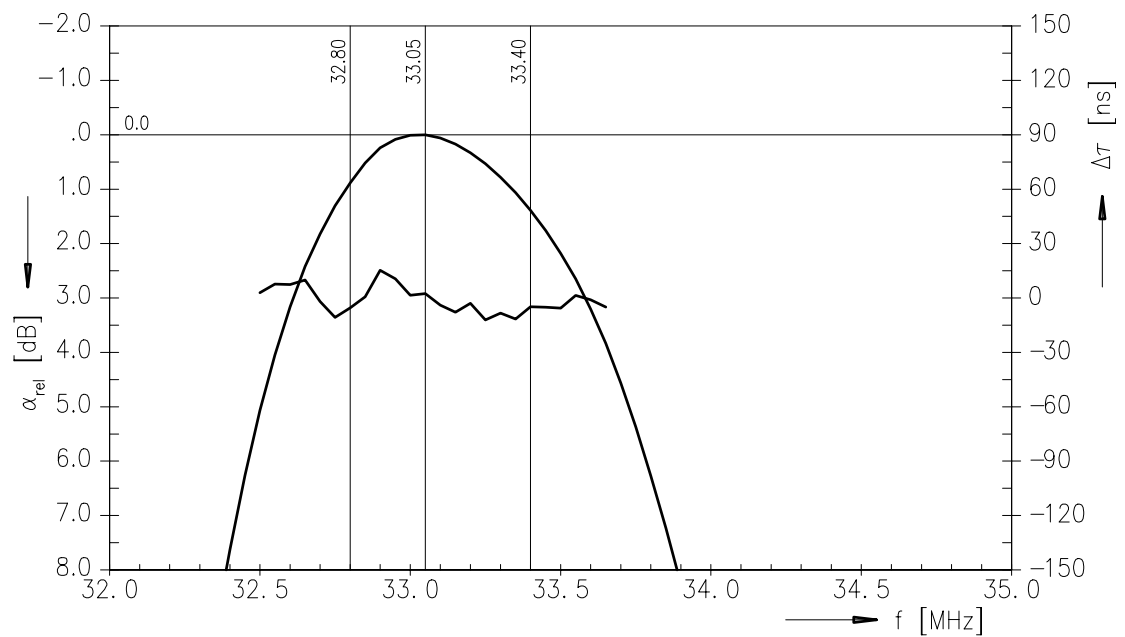
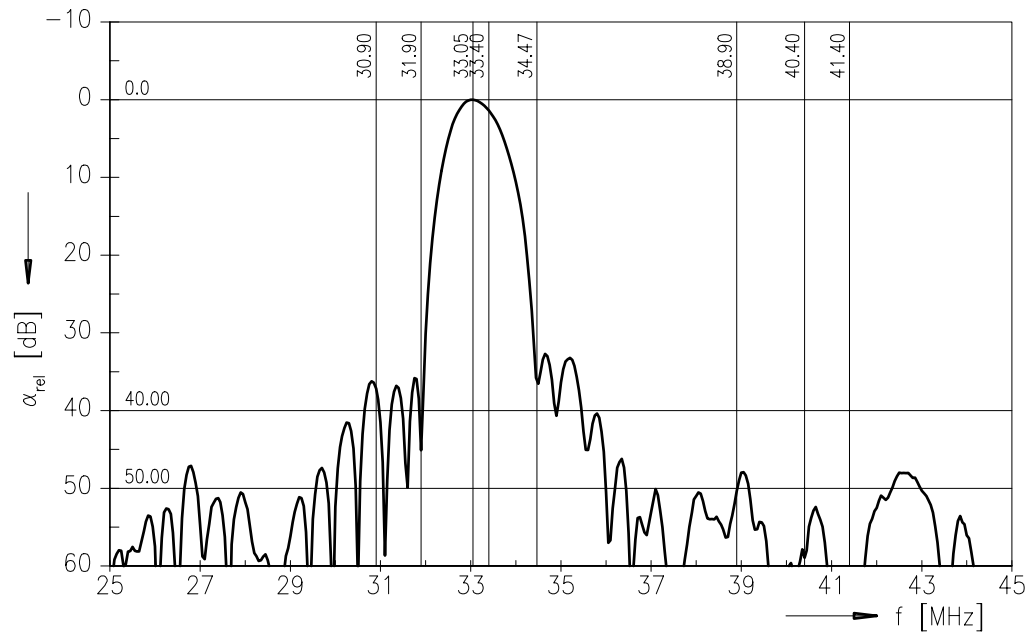
G 9353 M

IF Filter for Audio Applications

38,90 MHz

Data Sheet

Frequency response





<b>SAW Components</b>	<b>G 9353 M</b>
<b>IF Filter for Audio Applications</b>	<b>38,90 MHz</b>

Data Sheet

**Published by EPCOS AG**  
**Surface Acoustic Wave Components Division, SAW CE MM PD**  
**P.O. Box 80 17 09, D-81617 München**

© EPCOS AG 2001. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

EPCOS:

[B39389G9353M100](#)