

# 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

## **Features**

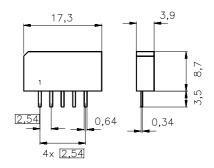
- TV IF audio filter with two passbands for picture and sound carrier
- Sound carriers at 33,40 MHz (B/G) and 33,05 MHz (B/G, L NICAM)

## **Terminals**

■ Tinned CuFe alloy

# Plastic package SIP5K

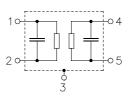




Dimensions in mm, approx. weight 1,0 g

## Pin configuration

- 1 Input
- 2 Input ground
- 3 Chip carrier ground
- 4 Output
- 5 Output



Туре	Ordering code		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	
Storage temperature range	$T_{ m stg}$	-40/+85	°C	
DC voltage	$V_{DC}$	12	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



SAW Components G 9251 M

# **IF Filter for Audio Applications**

38,90 MHz

**Data Sheet** 

Characteristics

Reference temperature:  $T_{\rm A} = 25\,^{\circ}{\rm C}$ Terminating source impedance:  $Z_{\rm S} = 50\,\Omega$ Terminating load impedance:  $Z_{\rm L} = 2\,{\rm k}\Omega\,||\,3\,{\rm pF}$ 

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



**SAW Components** 

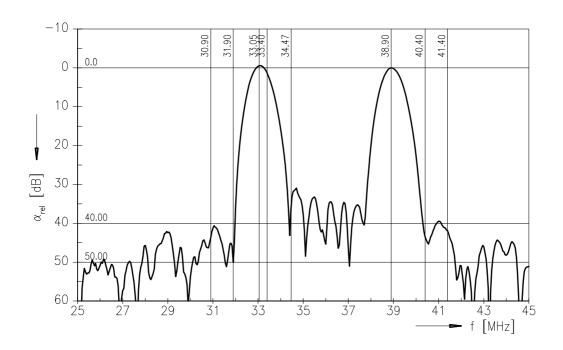
G 9251 M

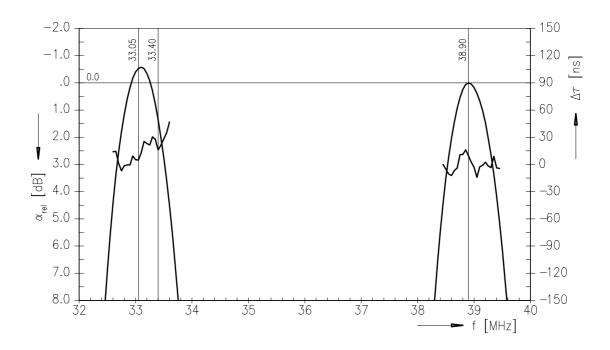
**IF Filter for Audio Applications** 

38,90 MHz

**Data Sheet** 

# Frequency response







SAW Components G 9251 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

© 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.