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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# *SAW Components*

*Data Sheet G 9251 M*

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in white, set against a dark, textured background. The letters are thick and have a slight shadow, giving them a three-dimensional appearance. The background features a faint, circular pattern that resembles a globe or a complex circuit board layout.

EPCOS



**SAW Components**

**G 9251 M**

**IF Filter for Audio Applications**

**38,90 MHz**

**Data Sheet**

**Standard**

- B/G
- L

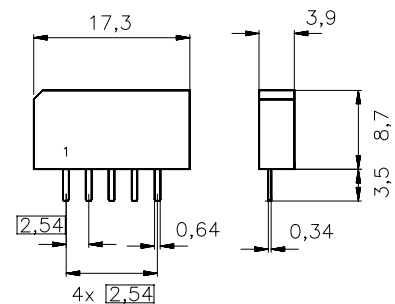
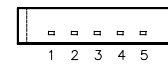
Plastic package **SIP5K**

**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**

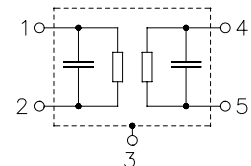
- Tinned CuFe alloy



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



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**Characteristics**

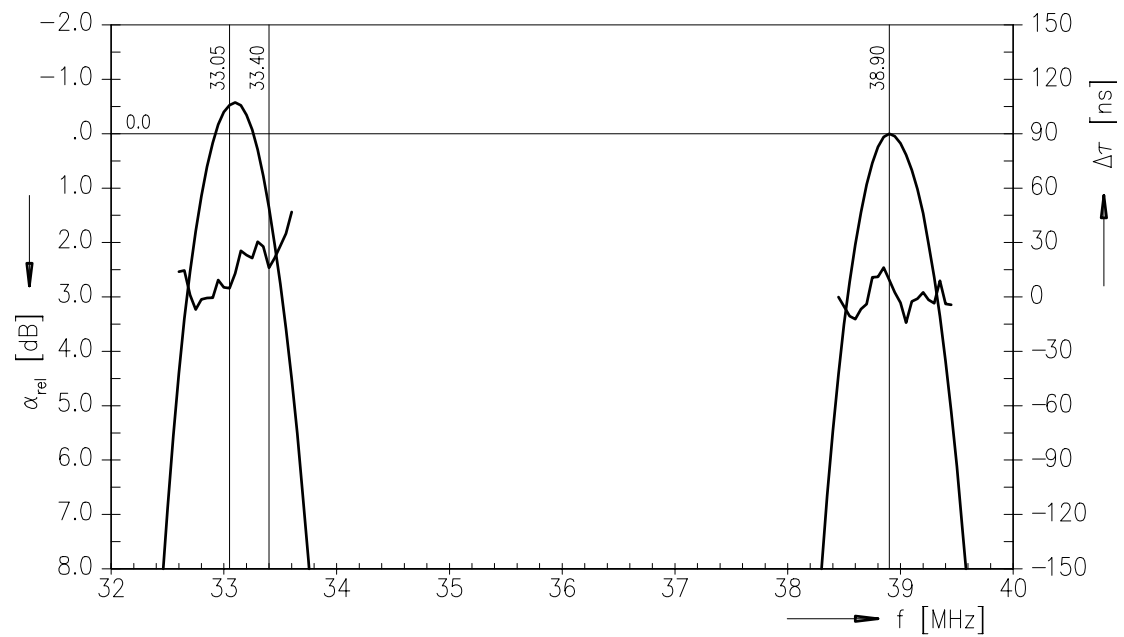
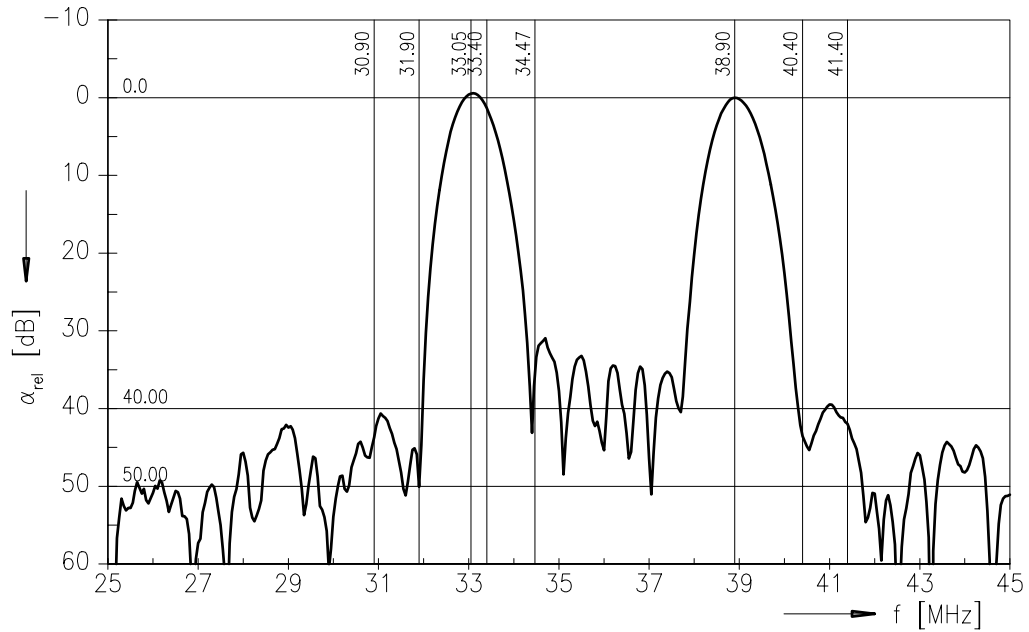
Reference temperature:  $T_A = 25\text{ °C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<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>					
	$\alpha_{rel}$				
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:	$Z_{IN} = R_{IN} \parallel C_{IN}$	—	1,3 $\parallel$ 10,2	—	k $\Omega$ $\parallel$ pF
Output:	$Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	7,7 $\parallel$ 4,6	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K



Data Sheet

Frequency response





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**P.O. Box 80 17 09, D-81617 München**

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