



# SAW Components

Data Sheet G 9353 M





**SAW Components**

**G 9353 M**

**IF Filter for Audio Applications**

**38,90 MHz**

**Data Sheet**

**Standard**

Plastic package **SIP5K**

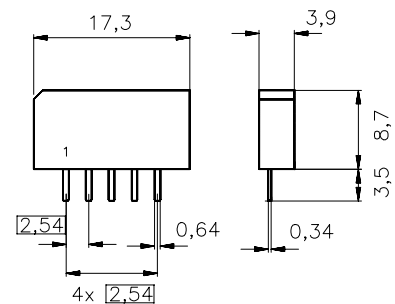
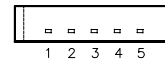
- B/G

**Features**

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

**Terminals**

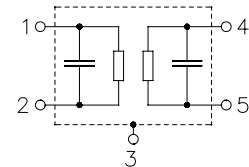
- Tinned CuFe alloy



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



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**Characteristics**

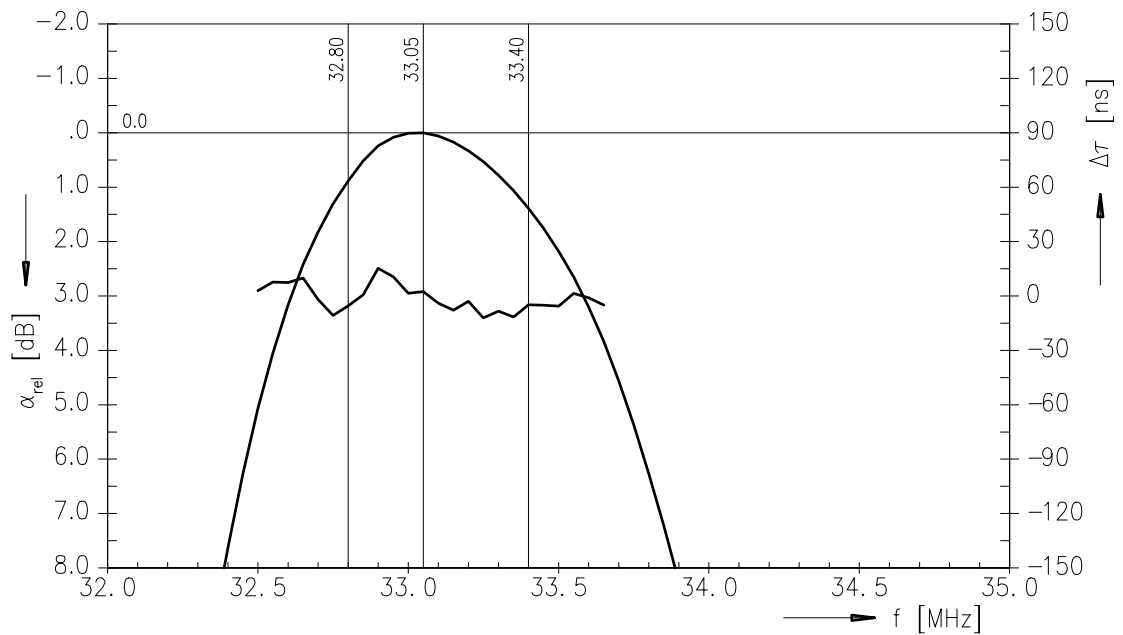
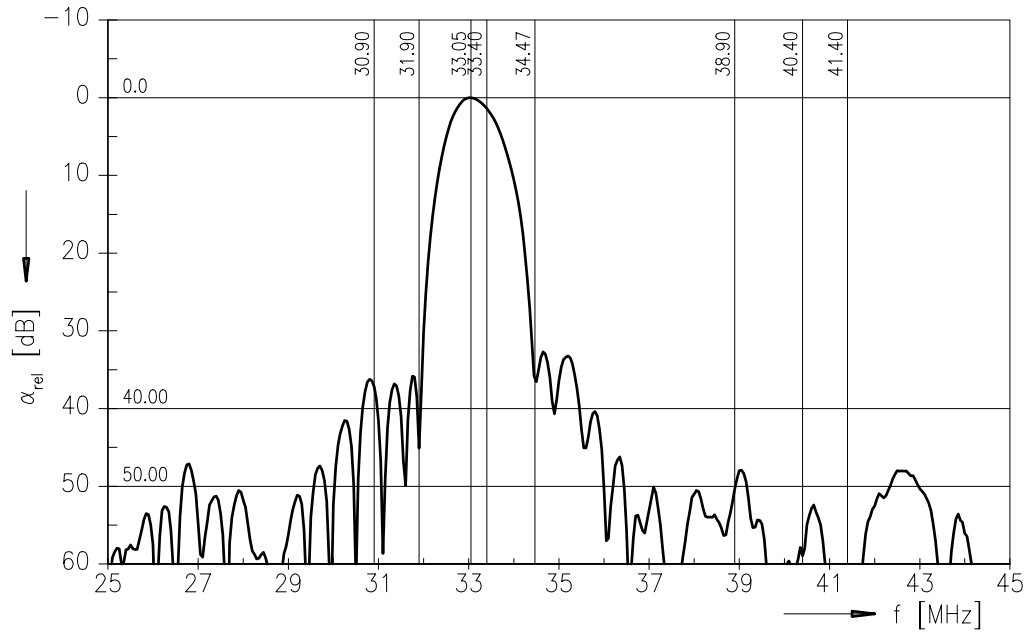
Reference temperature:  $T_A = 25\text{ °C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Insertion attenuation</b>					
	$\alpha$				
Reference level for the following data	33,05 MHz	11,6	13,1	14,6	dB
<b>Relative attenuation</b>					
	$\alpha_{rel}$				
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: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,2    10,3	—	k $\Omega$    pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	3,4    2,9	—	k $\Omega$    pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K



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Frequency response





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