



SAW Components

Data Sheet G 9251 M





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G 9251 M

IF Filter for Audio Applications

38,90 MHz

Data Sheet

Standard

- B/G
- L

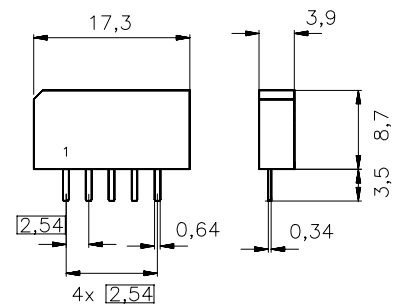
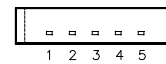
Plastic package **SIP5K**

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

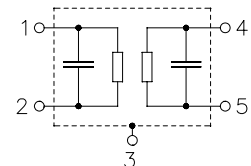
- Tinned CuFe alloy



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

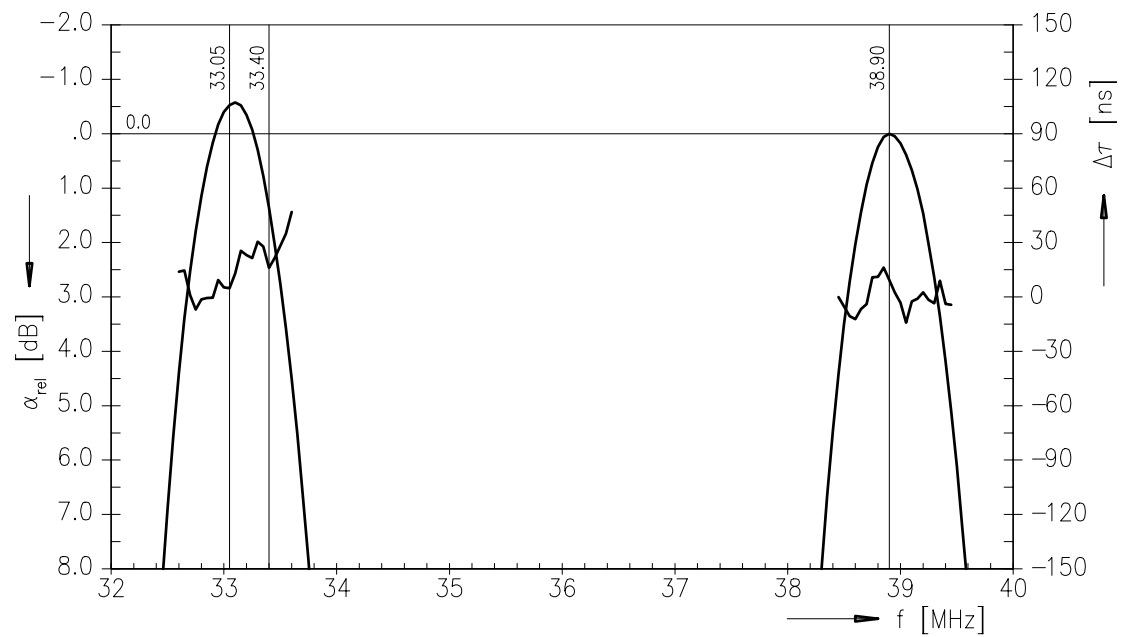
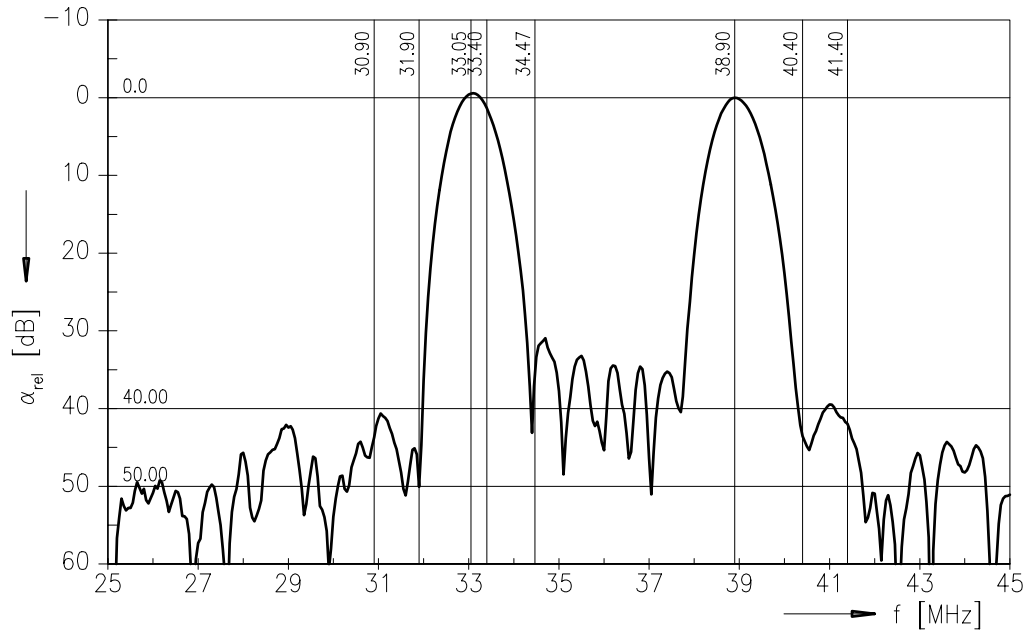
Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	38,90 MHz	16,9	18,4	19,9	dB
Relative attenuation					
	α_{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
Group delay ripple (p-p)	$\Delta\tau$	—	50	—	ns
Impedance at 33,40 MHz					
	Input: $Z_{IN} = R_{IN} \parallel C_{IN}$	—	1,3 \parallel 10,2	—	k Ω \parallel pF
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	7,7 \parallel 4,6	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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Frequency response





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