



SAW Components

Data Sheet G 9353 M

Data Sheet

EPCOS



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G 9353 M

IF Filter for Audio Applications

38,90 MHz

Data Sheet

Standard

Plastic package **SIP5K**

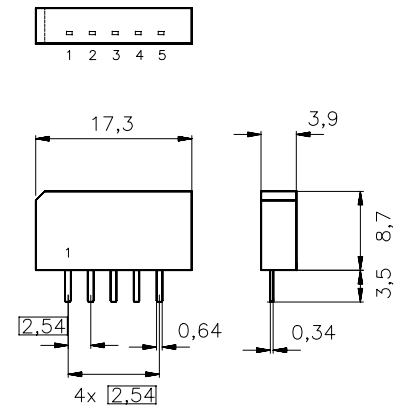
■ B/G

Features

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

Terminals

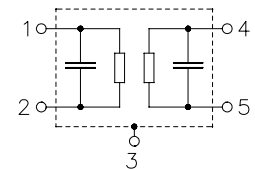
- Tinned CuFe alloy



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:

$$Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$$

		min.	typ.	max.	
Insertion attenuation α					
Reference level for the following data	33,05 MHz	11,6	13,1	14,6	dB
Relative attenuation α_{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
Group delay ripple (p-p) $\Delta\tau$					
		—	40	—	ns
Impedance at 33,05 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1,2 $\parallel$ 10,3	—	k Ω $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	3,4 $\parallel$ 2,9	—	k Ω $\parallel$ pF
Temperature coefficient of frequency TC_f					
		—	-72	—	ppm/K



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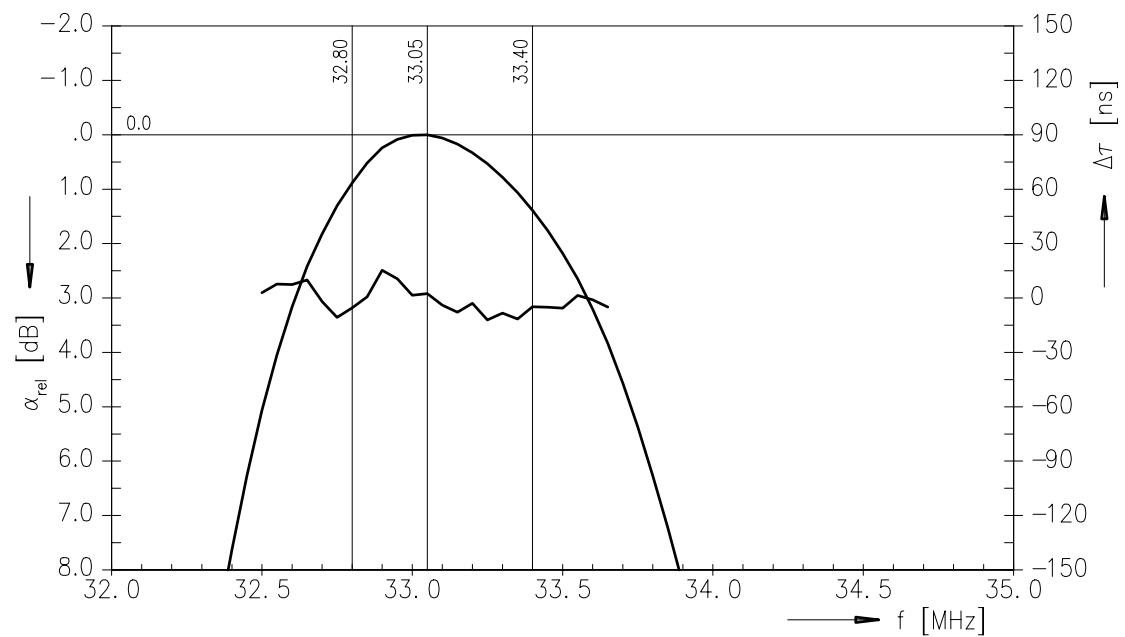
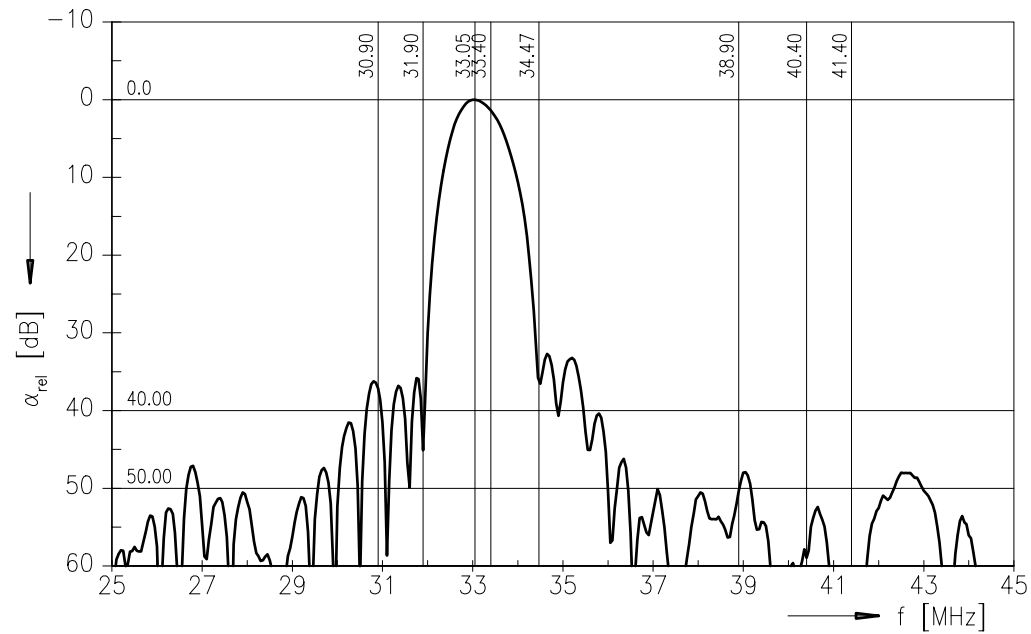
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Frequency response





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