



SAW Components

Data Sheet K 9356 M

Data Sheet

EPCOS



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K 9356 M

IF Filter for Audio Applications

38,90 MHz

Data Sheet

Standard

- B/G
- D/K
- I
- L

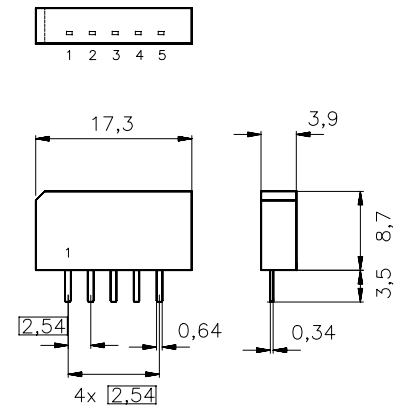
Plastic package **SIP5K**

Features

- TV IF audio filter with passband for sound carriers at 32,40 MHz (D/K, L), 32,90 MHz (I) and 33,40 MHz (B/G)

Terminals

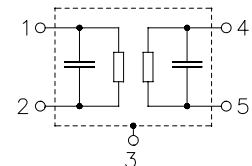
- Tinned CuFe alloy



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
K 9356 M	B39389-K9356-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	33,40 MHz	9,1	10,6	12,1	dB
Relative attenuation					
	α_{rel}				
Sound carrier	32,40 MHz	-1,4	-0,4	0,6	dB
	32,90 MHz	-0,9	0,1	1,1	dB
	33,05 MHz	-0,5	0,5	1,5	dB
Picture carrier	38,90 MHz	40,0	47,0	—	dB
Color carrier	34,47 MHz	33,0	40,0	—	dB
Adjacent picture carrier	30,90 MHz	40,0	55,0	—	dB
	31,90 MHz	9,5	12,0	—	dB
Adjacent sound carrier	40,40 MHz	46,0	54,0	—	dB
	40,90 MHz	46,0	61,0	—	dB
	41,40 MHz	46,0	60,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	34,0	38,0	—	dB
Upper sidelobe	38,90 ... 75,00 MHz	35,0	41,0	—	dB
Impedance at 33,40 MHz					
Input:	$Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$	—	0,7 $\parallel$ 11,6	—	k Ω $\parallel$ pF
Output:	$Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$	—	2,3 $\parallel$ 2,6	—	k Ω $\parallel$ pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



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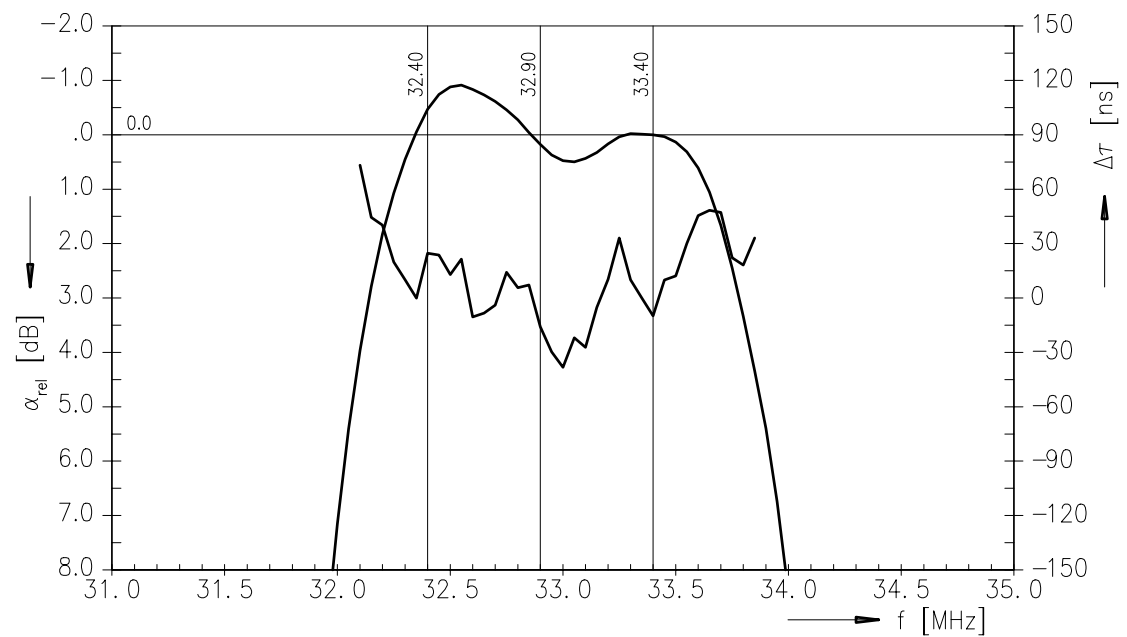
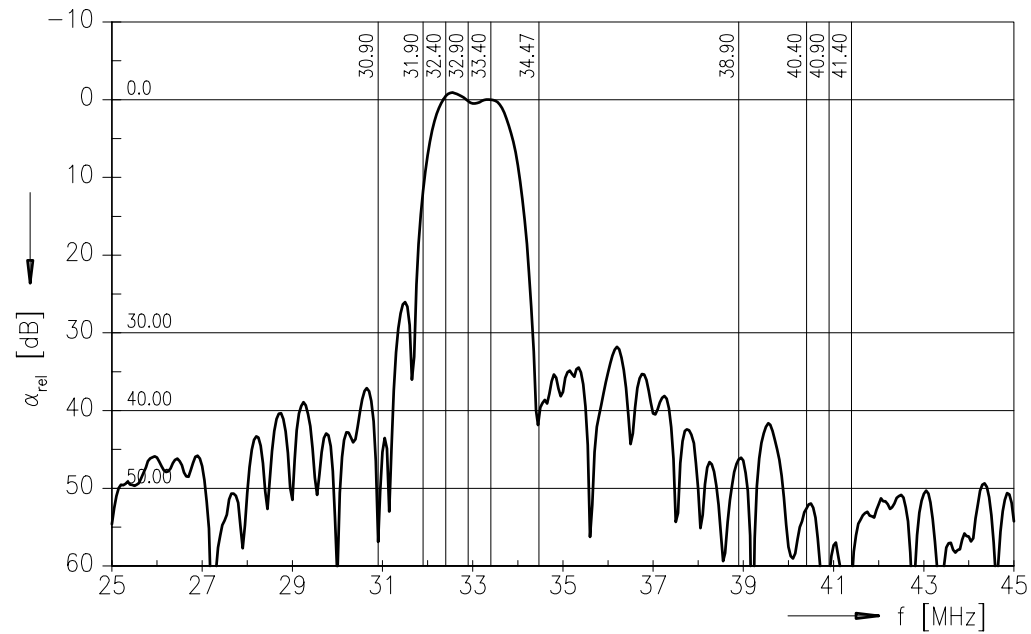
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Frequency response





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