



SAW Components

Data Sheet K 9661 D

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in a light gray, sans-serif font. The letters are tilted and appear to be floating or emerging from a dark, textured background that resembles a globe or a complex circuit board. The overall effect is a sense of depth and modernity.



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IF Filter for Audio Applications

33,90 MHz and 38,90 MHz

Data Sheet

Standard

Duroplast package **SIP5D**

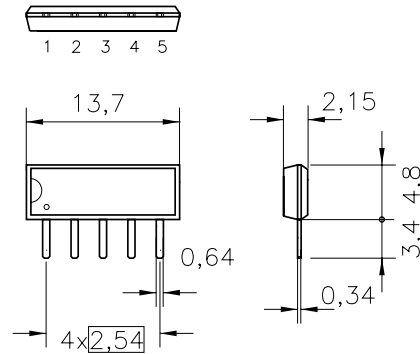
- L'
- M/N

Features

- TV IF audio filter with two channels
- Channel 1 (L') with one pass band for sound carrier at 40,40 MHz
- Channel 2 (M/N) with one pass band for sound carrier at 34,40 MHz
- Standard IC package

Terminals

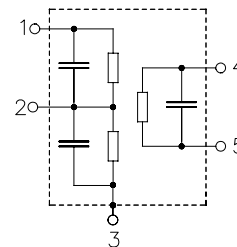
- Tinned CuFe alloy



Dimensions in mm, approx. weight 0,5 g

Pin configuration

- 1 Input
- 2 Switching Input
- 3 Chip carrier - ground
- 4 Output
- 5 Output



Type	Ordering code	Marking and package according to	Packing according to
K 9661 D	B39389-K9661-D100	C61157-A1-A18	F61074-V8049-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 of channel 1 (switching pin 2 connected to ground)

Reference temperature: $T_A = 25\text{ °C}$
Terminating source impedance: $Z_S = 50\text{ }\Omega$
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	40,40 MHz	11,6	13,1	14,6	dB
Relative attenuation	α_{rel}				
Picture carrier	33,90 MHz	41,0	53,0	—	dB
	38,40 MHz	35,0	53,0	—	dB
Adjacent picture carrier	41,90 MHz	31,0	36,0	—	dB
Adjacent sound carrier	32,40 MHz	45,0	66,0	—	dB
Lower sidelobe	25,00 ... 32,40 MHz	40,0	48,0	—	dB
Upper sidelobe	41,90 ... 45,00 MHz	29,0	34,0	—	dB
Impedance at 40,40 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	0,3 \parallel 10,4	—	k Ω \parallel pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	0,5 \parallel 11,3	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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Characteristics of channel 2 (switching pin 2 connected to pin 1)

Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\text{ }\Omega$
 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	34,40 MHz	10,6	12,1	13,6	dB
Relative attenuation	α_{rel}				
Picture carrier	38,90 MHz	40,0	52,0	—	dB
Color carrier	35,32 MHz	25,0	32,0	—	dB
Adjacent picture carrier	32,90 MHz	40,0	63,0	—	dB
Adjacent sound carrier	40,40 MHz	34,0	41,0	—	dB
Lower sidelobe	25,00 ... 32,90 MHz	30,0	37,0	—	dB
Upper sidelobe	38,90 ... 45,00 MHz	28,0	34,0	—	dB
Impedance at 34,40 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	0,3 \parallel 20,4	—	k Ω \parallel pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	0,6 \parallel 14,1	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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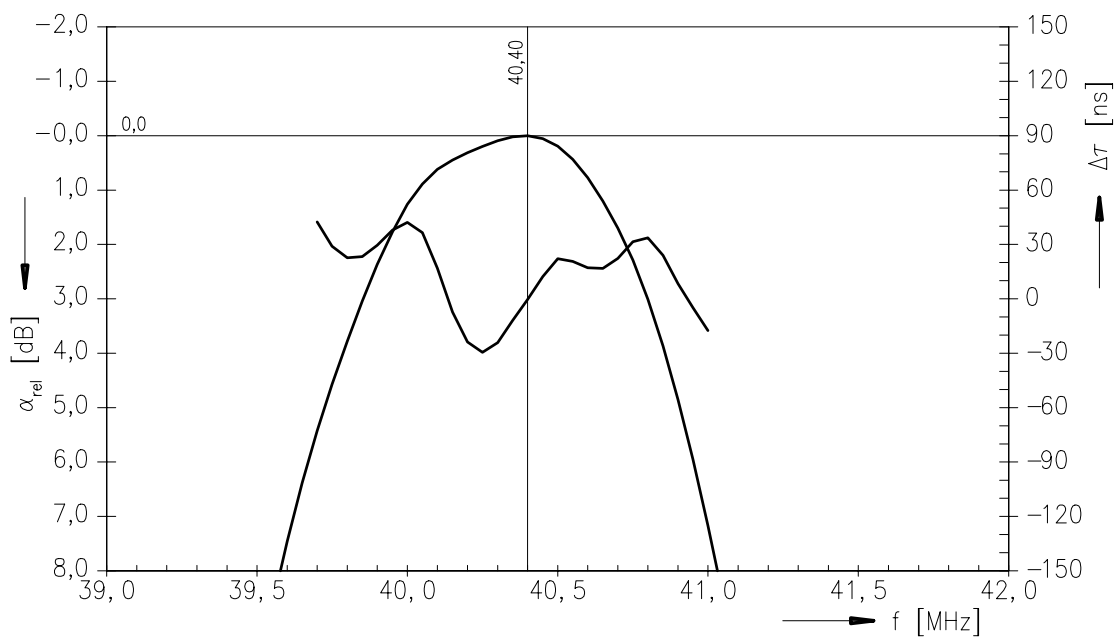
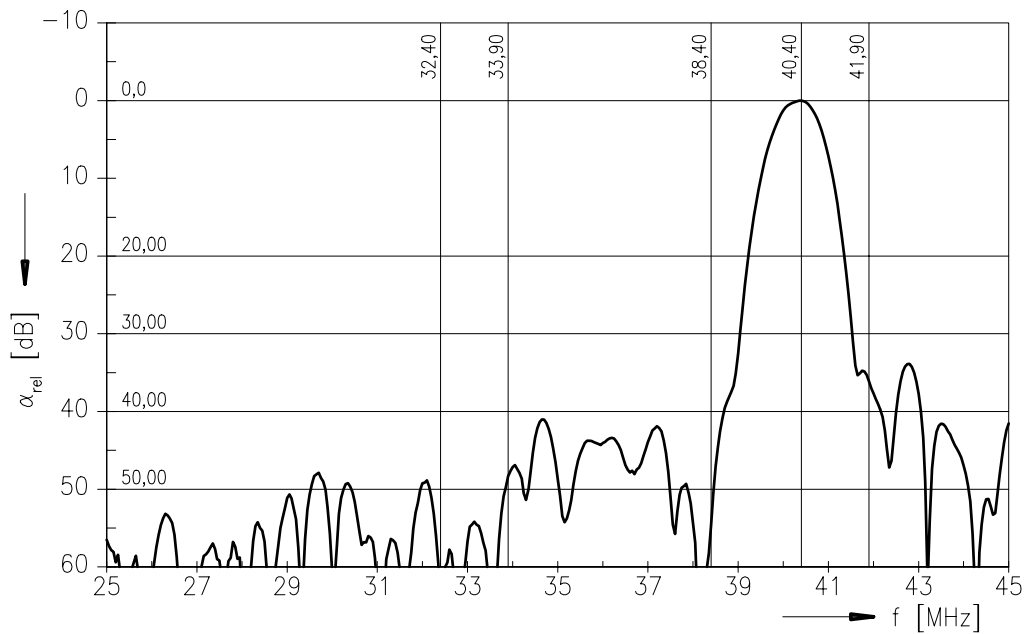
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Data Sheet

Frequency response of channel 1





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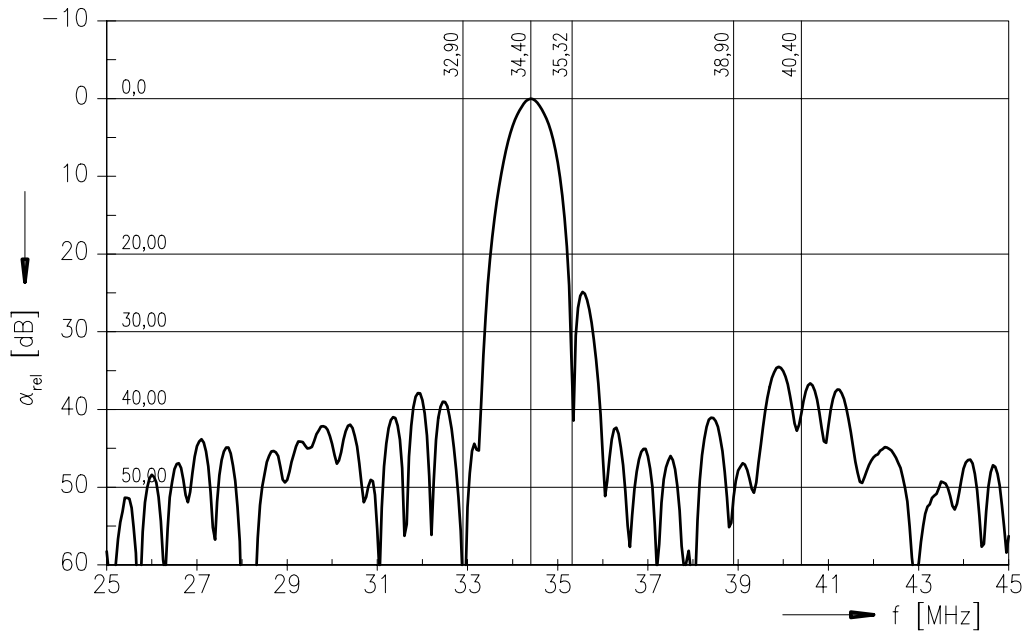
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Data Sheet

Frequency response of channel 2





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