



# SAW Components

Data Sheet K 9661 D

Data Sheet



**SAW Components**
**K 9661 D**
**IF Filter for Audio Applications**
**33,90 MHz and 38,90 MHz**
**Data Sheet**
**Standard**
**Duroplast package SIP5D**

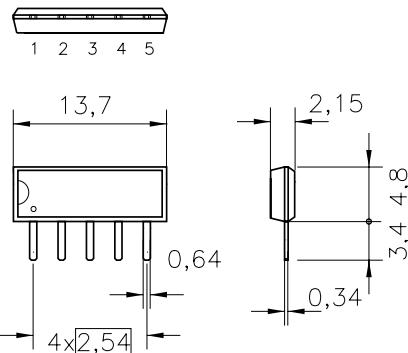
- L'
- M/N

**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**

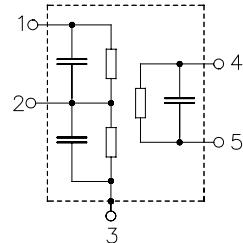
- Tinned CuFe alloy



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**

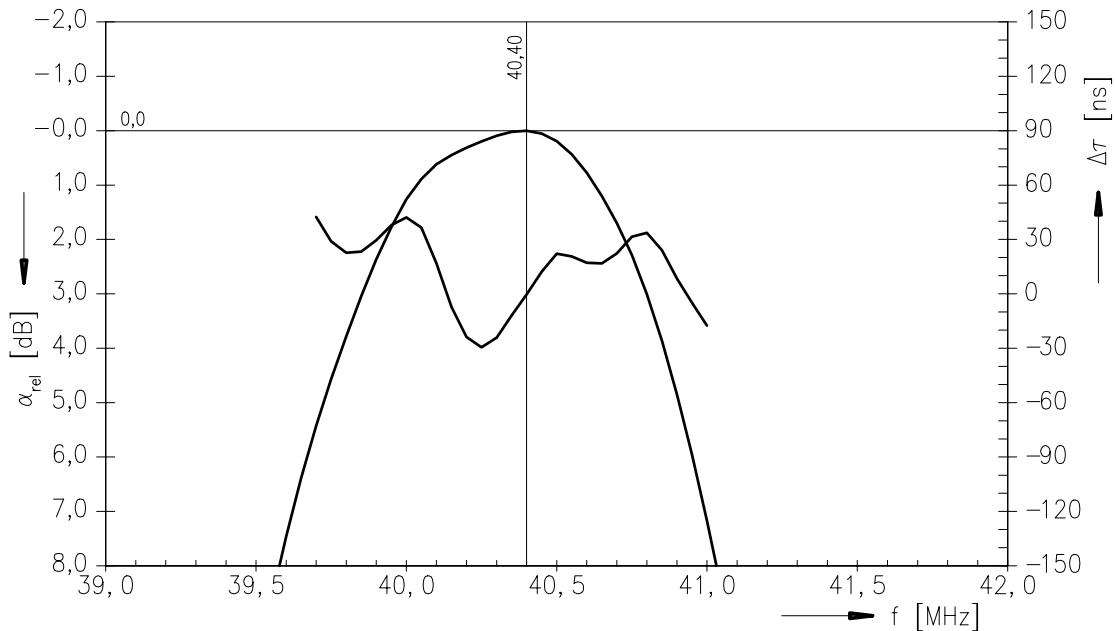
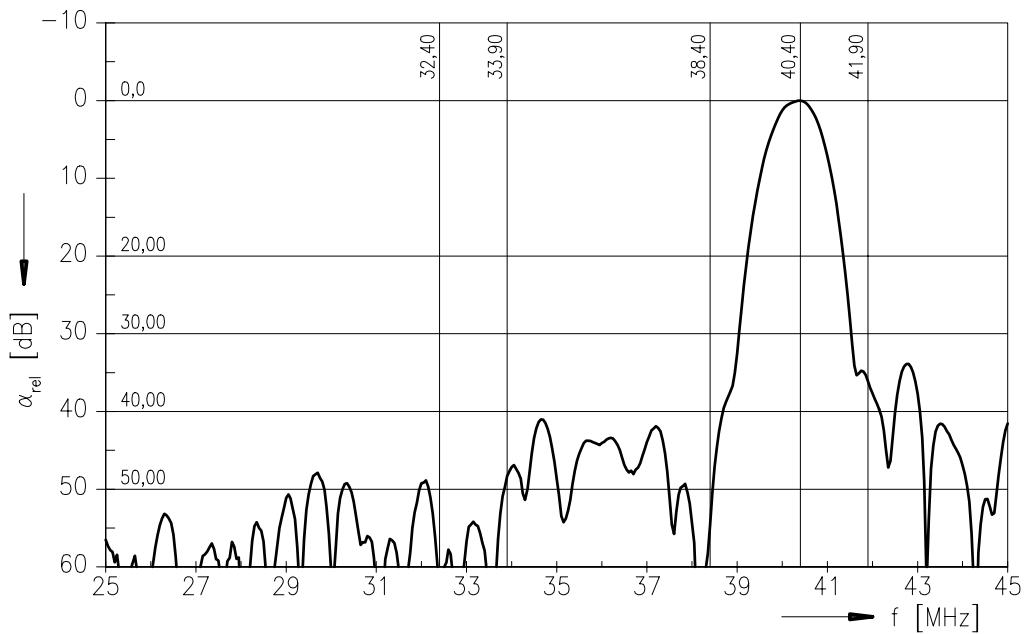
Operable temperature range	$T_A$	-25/+65	°C	
Storage temperature range	$T_{stg}$	-40/+85	°C	
DC voltage	$V_{DC}$	5	V	between any terminals
AC voltage	$V_{pp}$	10	V	between any terminals

**SAW Components****K 9661 D****IF Filter for Audio Applications****33,90 MHz and 38,90 MHz****Data Sheet****Characteristics of channel 1 (switching pin 2 connected to ground)**Reference temperature:  $T_A = 25^\circ\text{C}$ 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	40,40 MHz	11,6	13,1	14,6	dB
<b>Relative attenuation</b>	$\alpha_{\text{rel}}$				
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
<b>Impedance at 40,40 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$	—	0,3 $\parallel$ 10,4	—	—	$\text{k}\Omega \parallel \text{pF}$
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$	—	0,5 $\parallel$ 11,3	—	—	$\text{k}\Omega \parallel \text{pF}$
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K

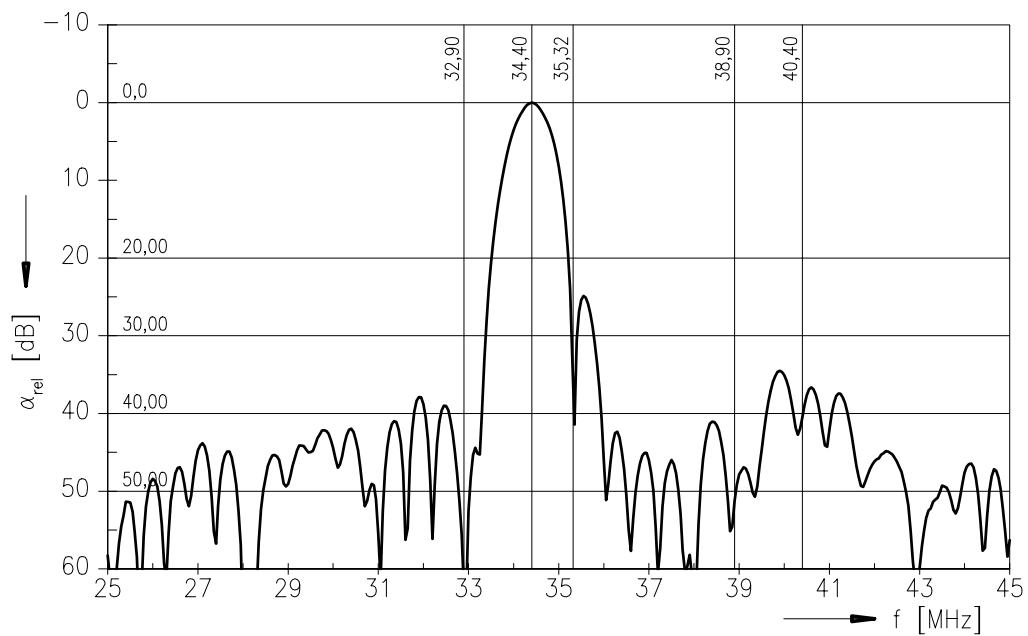
**SAW Components****K 9661 D****IF Filter for Audio Applications****33,90 MHz and 38,90 MHz****Data Sheet****Characteristics of channel 2 (switching pin 2 connected to pin 1)**Reference temperature:  $T_A = 25^\circ\text{C}$ Terminating source impedance:  $Z_S = 50 \Omega$ Terminating load impedance:  $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$ 

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Insertion attenuation</b>	$\alpha$				
Reference level for the following data	34,40 MHz	10,6	12,1	13,6	dB
<b>Relative attenuation</b>	$\alpha_{\text{rel}}$				
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
<b>Impedance at 34,40 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$	—	0,3    20,4	—	—	$\text{k}\Omega \parallel \text{pF}$
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$	—	0,6    14,1	—	—	$\text{k}\Omega \parallel \text{pF}$
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K

**Data Sheet**
**Frequency response of channel 1**


Data Sheet

Frequency response of channel 2





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