EPCOS

SAW Components

Data Sheet K 9462 M

Data Sheet

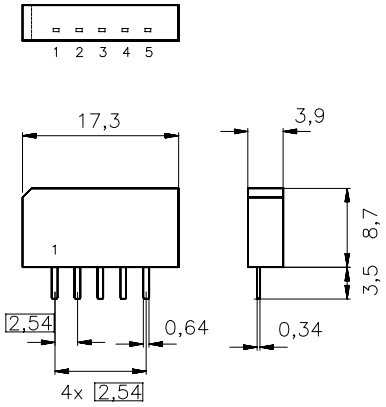
Standard

- B/G
- D/K
- I
- M/N

Features

- TV IF audio filter with two channels
- Channel 1 (M/N) with one pass band for sound carrier at 34,40 MHz
- Channel 2 (B/G, D/K, I) with one pass band for sound carriers at 32,35 MHz (I NICAM), 32,40 MHz (D/K), 32,90 MHz (I) and 33,40 MHz (B/G)

Plastic package **SIP5K**



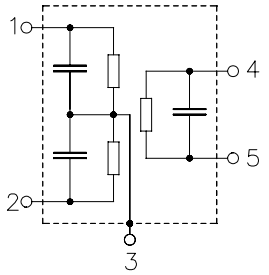
Dimensions in mm, approx. weight 1,0 g

Terminals

- Tinned CuFe alloy

Pin configuration

1	Input channel 1 / Input ground
2	Input ground / Input channel 2
3	Chip carrier - ground
4	Output
5	Output



Type	Ordering code	Marking and package according to	Packing according to
K 9462 M	B39389-K9462-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

Characteristics of channel 1

Reference temperature: T_A = 25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2 kΩ || 3 pF

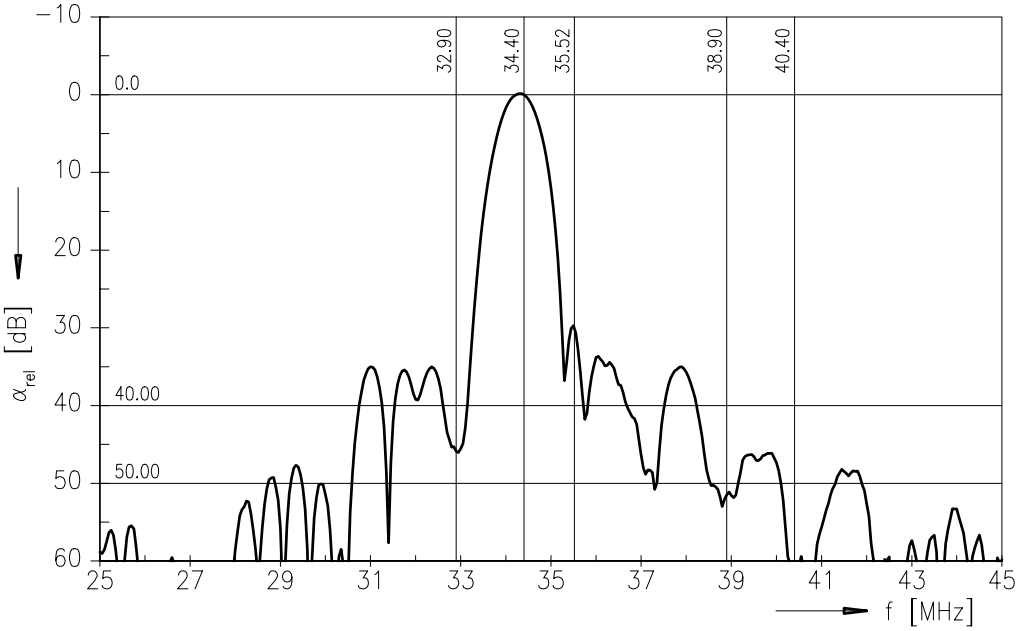
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data		34,40 MHz		13,7	15,2	16,7	dB
Relative attenuation			α_{rel}				
Picture carrier		38,90 MHz		40,0	48,0	—	dB
Color carrier		35,32 MHz		27,0	35,0	—	dB
Adjacent picture carrier		32,90 MHz		32,0	39,0	—	dB
Adjacent sound carrier		40,40 MHz		42,0	54,0	—	dB
Lower sidelobe	25,00 ...	32,90 MHz		27,0	33,0	—	dB
Upper sidelobe	38,90 ...	45,00 MHz		37,0	45,0	—	dB
Impedance at 34,40 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				—	0,6 ‖12,5	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	1,2 ‖ 4,7	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–72	—	ppm/K

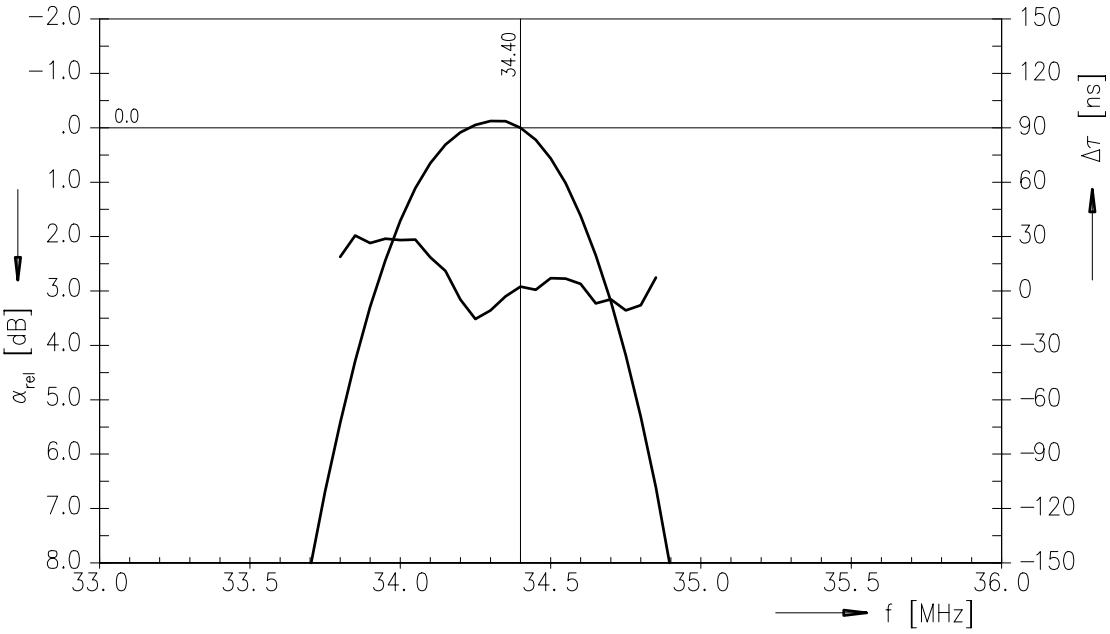
Characteristics of channel 2

Reference temperature: T_A = 25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2 kΩ || 3 pF

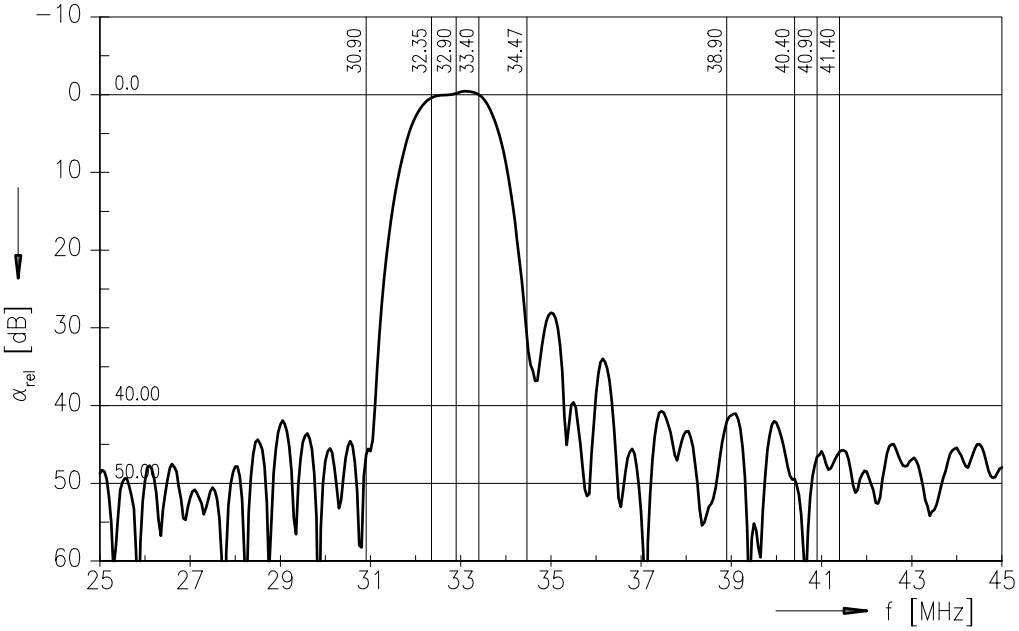
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	33,40 MHz		14,9	16,4	17,9	dB
Relative attenuation		α_{rel}				
Sound carrier I NICAM	32,35 MHz		–0,8	0,2	1,2	dB
Sound carrier D/K	32,40 MHz		—	0,1	—	dB
Sound carrier I	32,90 MHz		–1,3	–0,3	0,7	dB
Picture carrier	38,90 MHz		35,0	42,0	—	dB
Color carrier	34,47 MHz		25,0	30,0	—	dB
Adjacent picture carrier	30,90 MHz		38,0	45,0	—	dB
Adjacent sound carrier B/G, D/K	40,40 MHz		40,0	51,0	—	dB
Adjacent sound carrier I	40,90 MHz		38,0	44,0	—	dB
Adjacent sound carrier B/G (UHF)	41,40 MHz		36,0	43,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz		34,0	42,0	—	dB
Upper sidelobe	38,90 ... 45,00 MHz		34,0	41,0	—	dB
Impedance at 33,40 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	1,1 ‖ 10,1	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	0,8 ‖ 9,1	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

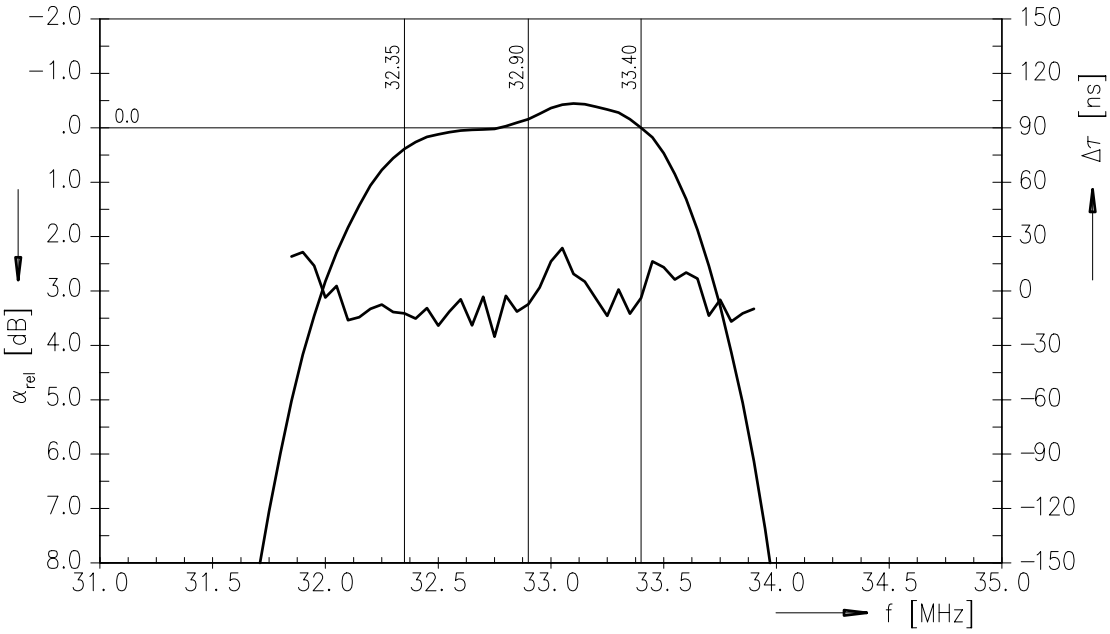
Frequency response of channel 1





Frequency response of channel 2





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