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SAW Components

Data Sheet K 3562 M

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Data Sheet

Standard

- B/G
- D/K
- I

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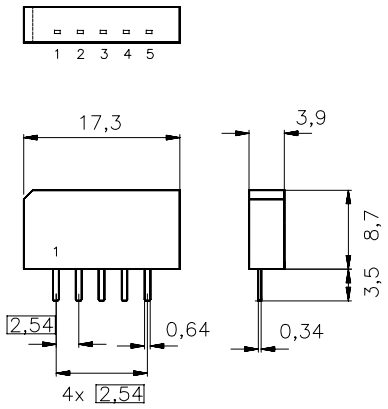
Features

- TV IF filter for quasi/split sound applications (separate picture and sound channel)
- Picture channel with Nyquist slope and sound suppression, symmetrical output
- Customized group delay predistortion
- Sound channel with pass band for sound carriers between 31,5 MHz and 32,5 MHz

Terminals

- Tinned CuFe alloy

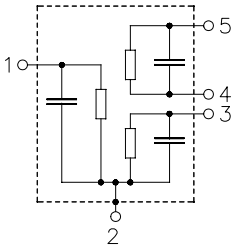
Plastic package **SIP5K**



Dimensions in mm, approx. weight 1,0 g

Pin configuration

1	Input
2	Chip carrier - ground
3	Output - sound
4	Output - picture
5	Output - picture



Type	Ordering code	Marking and package according to	Packing according to
K 3562 M	B39380-K3562-M201	C61157-A1-A15	F61074-V8067-Z000

Maximum ratings

Operating 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 picture channel

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

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			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	36,50 MHz		14,3	15,8	17,3	dB
Relative attenuation		α_{rel}				
Picture carrier	38,00 MHz		5,2	6,2	7,2	dB
Color carrier	33,57 MHz		0,3	1,3	2,3	dB
Sound carrier	31,50 MHz		30,0	39,0	—	dB
	32,50 MHz		25,0	32,0	—	dB
Adjacent picture carrier	30,00 MHz		36,0	46,0	—	dB
	31,00 MHz		30,0	44,0	—	dB
Adjacent sound carrier	39,50 MHz		35,0	42,0	—	dB
	40,00 MHz		35,0	43,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz		38,0	44,0	—	dB
Upper sidelobe	40,00 ... 45,00 MHz		37,0	43,0	—	dB
Reflected wave signal suppression						
1,2 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)			42,0	50,0	—	dB
Feedthrough signal suppression						
1,2 µs ... 1,1 µs before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)			50,0	56,0	—	dB
Group delay predistortion (reference frequency 38,00 MHz)		Δτ				
	35,00 MHz		—	–40	—	ns
	34,50 MHz		—	–60	—	ns
	34,00 MHz		—	–95	—	ns
	33,50 MHz		—	–130	—	ns
Impedance at 36,50 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	1,4 || 20,8	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	2,2 || 3,7	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

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Characteristics of sound channel

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

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				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data	31,50	MHz		12,3	13,8	15,3	dB
Relative attenuation			α_{rel}				
Sound carrier	32,50	MHz		0,8	1,8	2,8	dB
Picture carrier	38,00	MHz		35,0	45,0	—	dB
Color carrier	33,57	MHz		16,0	20,0	—	dB
Adjacent picture carrier	30,00	MHz		26,0	32,0	—	dB
	31,00	MHz		—	3,0	—	dB
Adjacent sound carrier	39,50	MHz		36,0	46,0	—	dB
	40,00	MHz		36,0	48,0	—	dB
Lower sidelobe	25,00 ... 30,00	MHz		26,0	32,0	—	dB
Upper sidelobe	38,00 ... 45,00	MHz		32,0	38,0	—	dB
Impedance at 31,50 MHz Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	3,5 || 3,3	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–72	—	ppm/K

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Frequency response of picture channel

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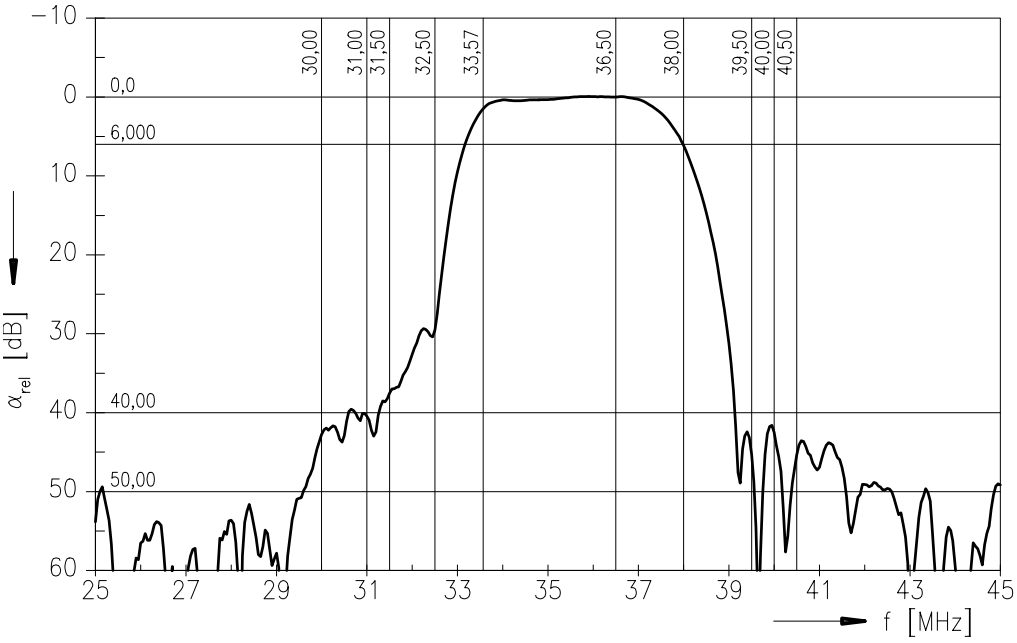

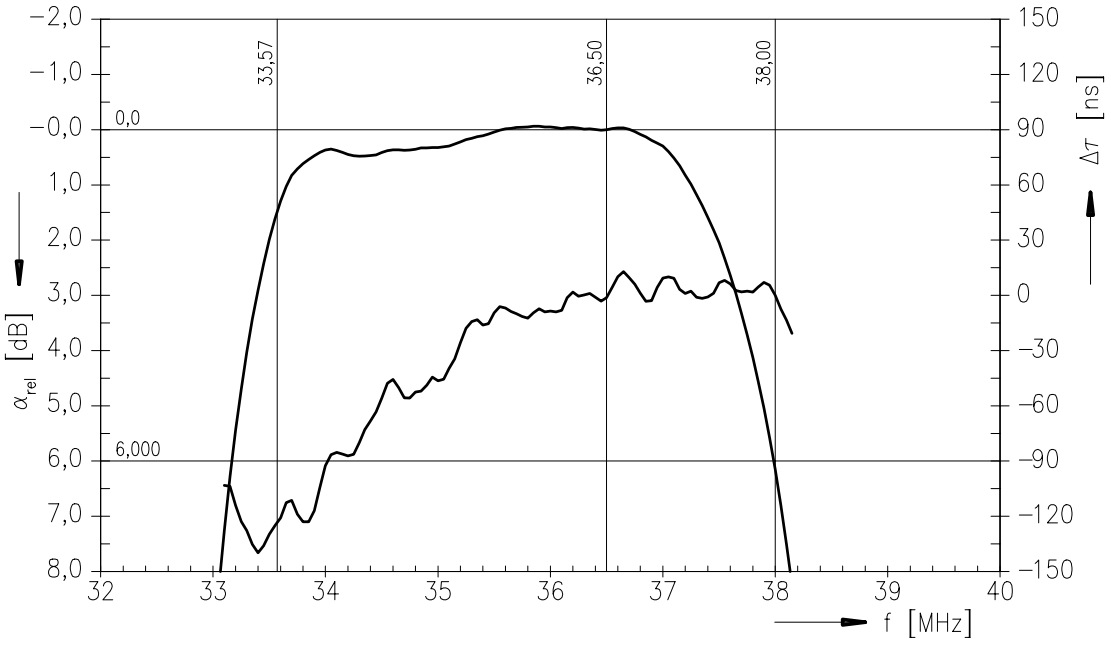

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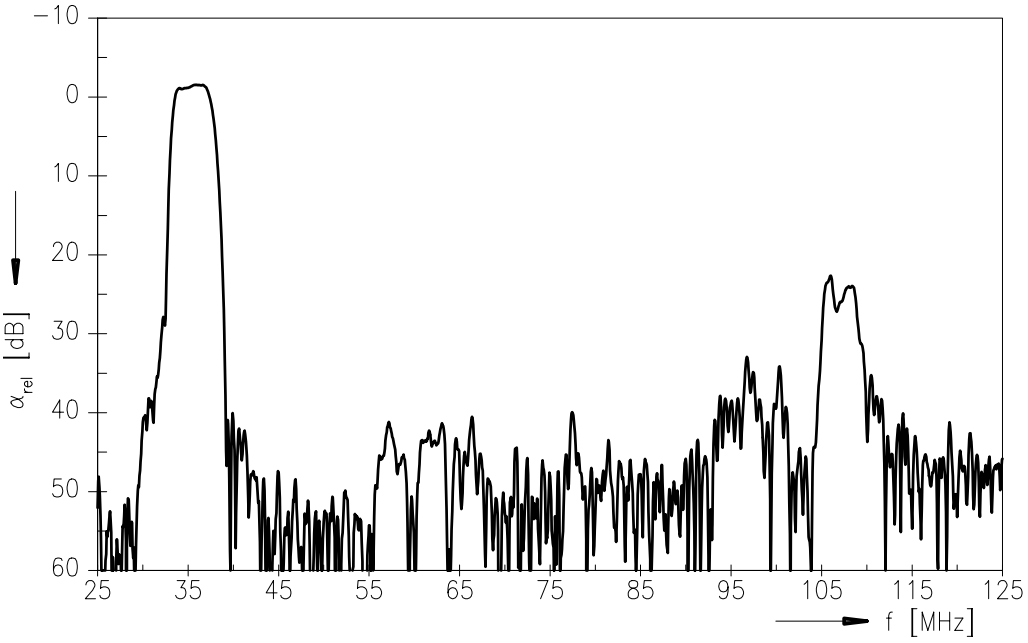
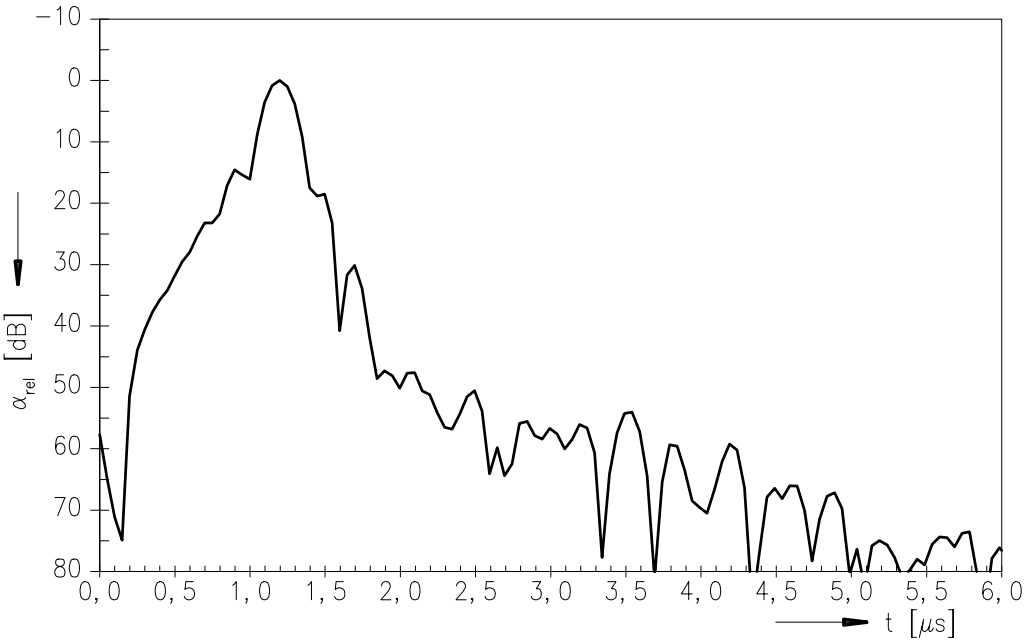
Frequency response of picture channel



Time domain response of picture channel



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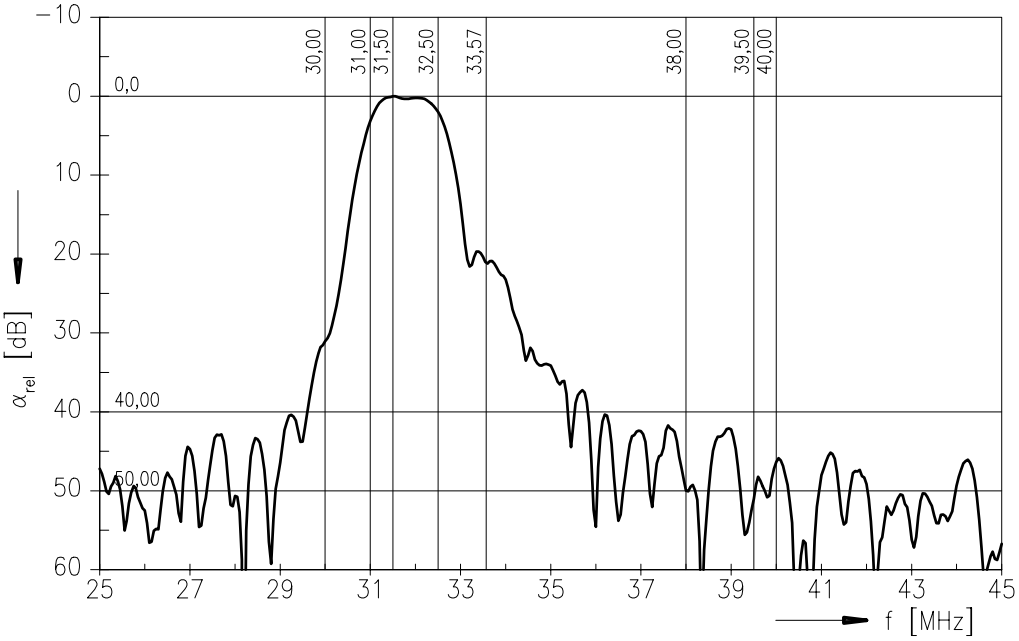
Frequency response of sound channel



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