



SAW Components

Data Sheet K 2962 M

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EPCOS



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IF Filter for Intercarrier Applications

33,90 MHz and 38,90MHz

Data Sheet

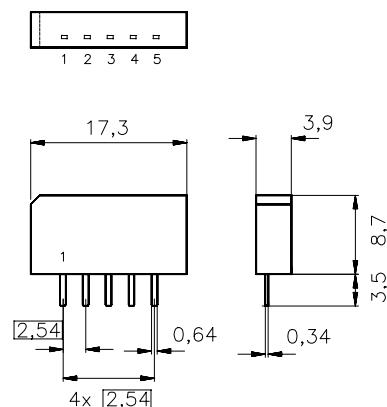
Standard

- B/G
- I
- L/L'

Plastic package **SIP5K**

Features

- TV IF filter with two Nyquist slope and sound shelf
- Picture carriers at 33,90 MHz and 38,90 MHz
- Broad sound shelf at 15 dB level for sound carriers at 32,90 MHz and 33,40 MHz
- Constant group delay



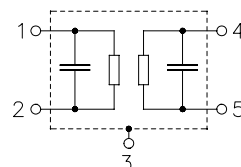
Terminals

- 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 2962 M	B39389-K2962-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}	5	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: $Z_S = 50\text{ }\Omega$
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	37,40 MHz	13,0	14,5	16,0	dB
Relative attenuation	α_{rel}				
Picture carrier	38,90 MHz	4,6	5,6	6,6	dB
	33,90 MHz	5,8	6,8	7,8	dB
Color carrier	34,47 MHz	0,0	1,0	2,0	dB
Sound carrier	33,40 MHz	—	14,8	—	dB
	32,90 MHz	—	14,9	—	dB
Adjacent picture carrier	31,90 MHz	44,0	56,0	—	dB
Adjacent sound carrier	40,40 MHz	42,0	50,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz	40,0	47,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	40,0	47,0	—	dB
Reflected wave signal suppression					
1,2 μ s ... 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		42,0	54,0	—	dB
Feedthrough signal suppression					
1,2 μ s ... 1,1 μ s before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	40	—	ns
Impedance at 37,40 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,5 $\parallel$ 15,1	—	k Ω $\parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,8 $\parallel$ 3,9	—	k Ω $\parallel$ pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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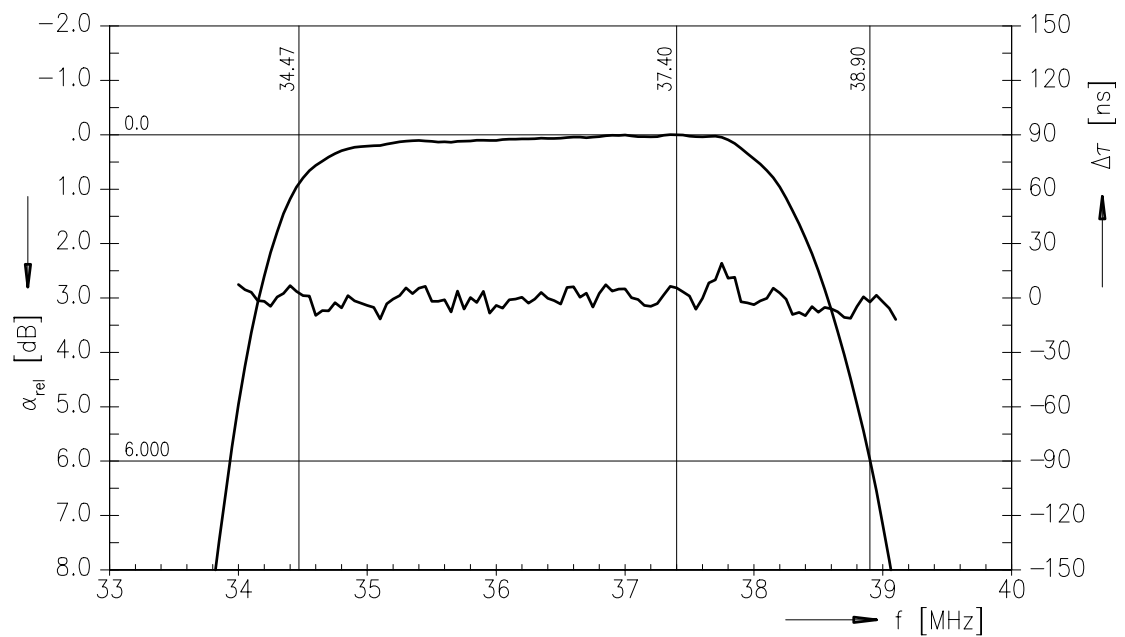
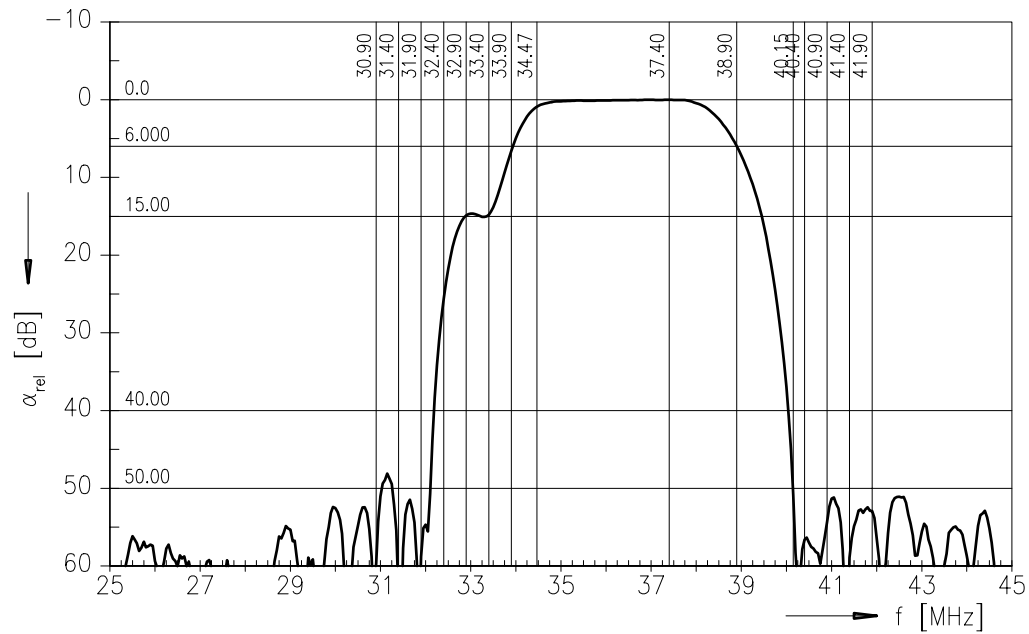
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Frequency response





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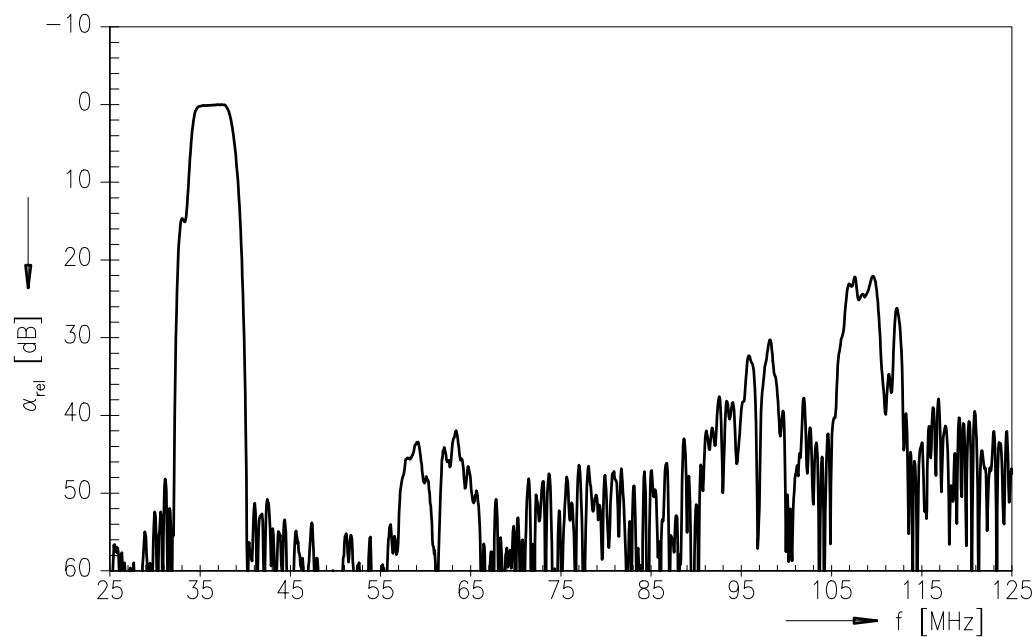
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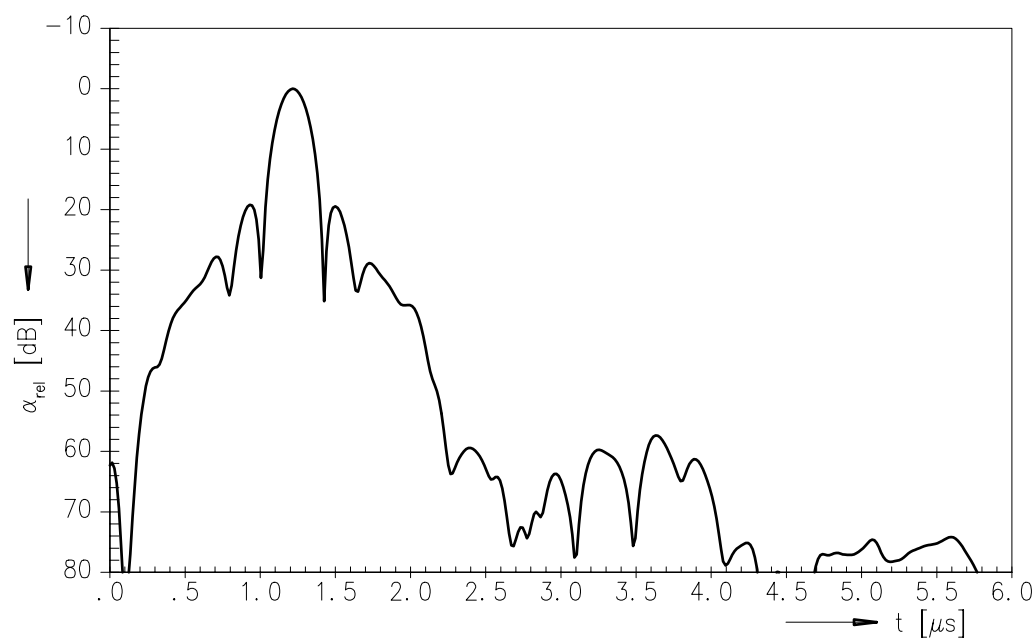
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Frequency response



Time domain response





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