



SAW Components

Data Sheet G 3962 M





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IF Filter for Video Applications

38,90 MHz

Data Sheet

Standard

Plastic package **SIP5K**

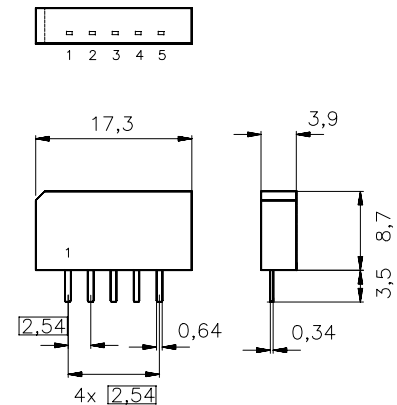
- B/G

Features

- TV IF filter with Nyquist slope and sound suppression
- Reduced group delay predistortion as compared with standard B/G, half
- Suitable for CENELEC EN 55020

Terminals

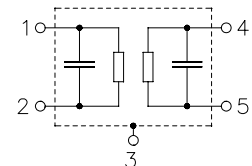
- Tinned CuFe alloy



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
G 3962 M	B39389-G3962-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



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Characteristics

Reference temperature:

$$T_A = 25\text{ °C}$$

Terminating source impedance:

$$Z_S = 50\ \Omega$$

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	12,0	13,5	15,0	dB
Relative attenuation α_{rel}					
Picture carrier	38,90 MHz	4,6	5,6	6,6	dB
Color carrier	34,47 MHz	2,0	3,0	4,0	dB
Sound carrier	33,40 MHz	42,0	54,0	—	dB
Adjacent picture carrier UHF	30,90 MHz	46,0	55,0	—	dB
VHF	31,90 MHz	48,0	59,0	—	dB
	32,40 MHz	44,0	50,0	—	dB
	40,15 MHz	37,0	43,0	—	dB
Adjacent sound carrier VHF	40,40 MHz	44,0	52,0	—	dB
UHF	41,40 MHz	42,0	48,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz	40,0	44,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	36,0	41,0	—	dB
Reflected wave signal suppression					
1,1 μ s ... 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		42,0	50,0	—	dB
Feedthrough signal suppression					
1,2 μ s ... 1,0 μ s before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		50,0	56,0	—	dB
Group delay predistortion $\Delta\tau$ (reference frequency 38,90 MHz)					
	36,70 MHz	—	–85	—	ns
	34,47 MHz	—	15	—	ns
Impedance at 37,40 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,6 \parallel 14,2	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,3 \parallel 5,7	—	k Ω \parallel pF
Temperature coefficient of frequency TC_f					
		—	–72	—	ppm/K



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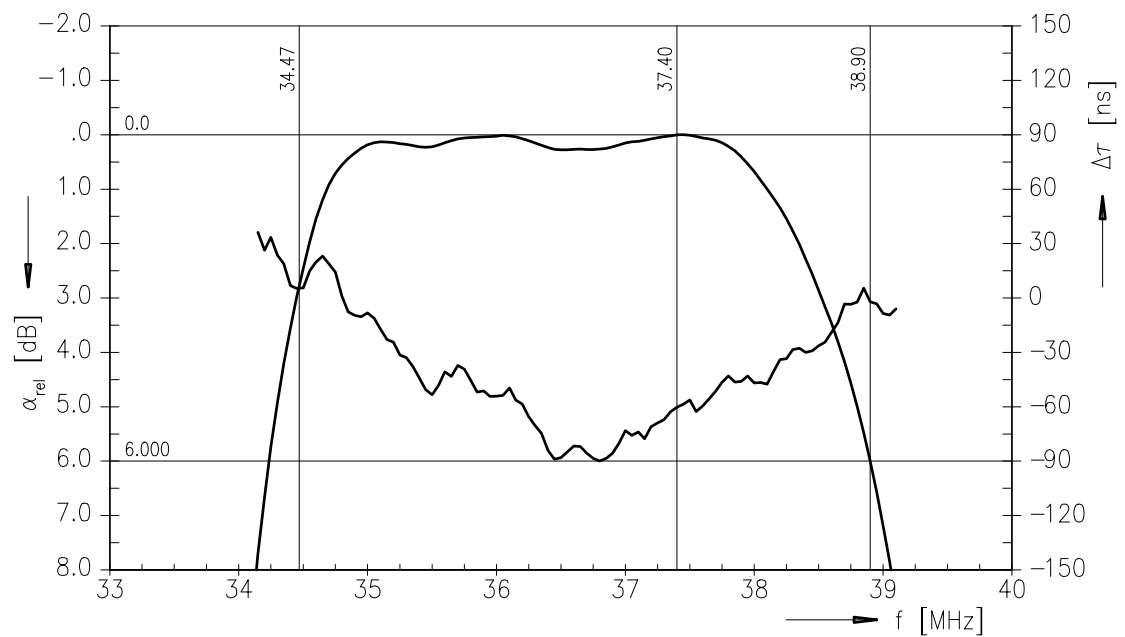
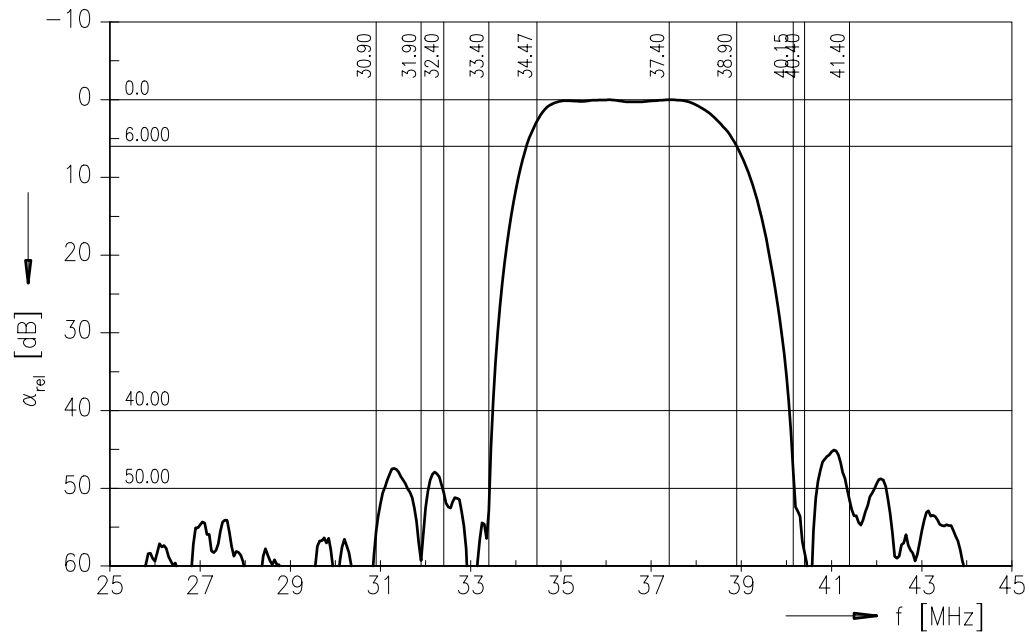
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Frequency response





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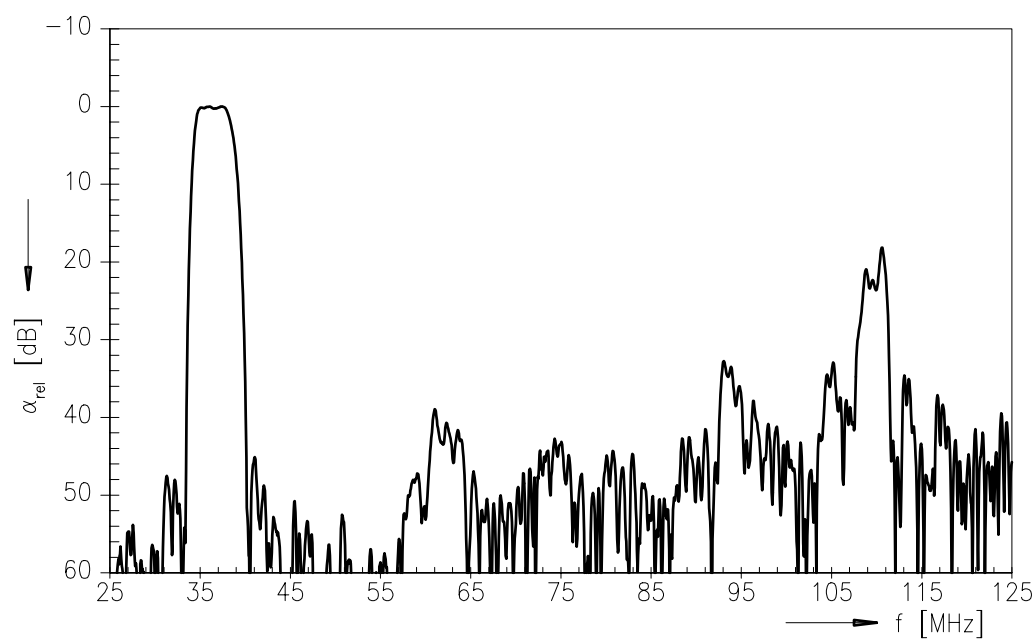
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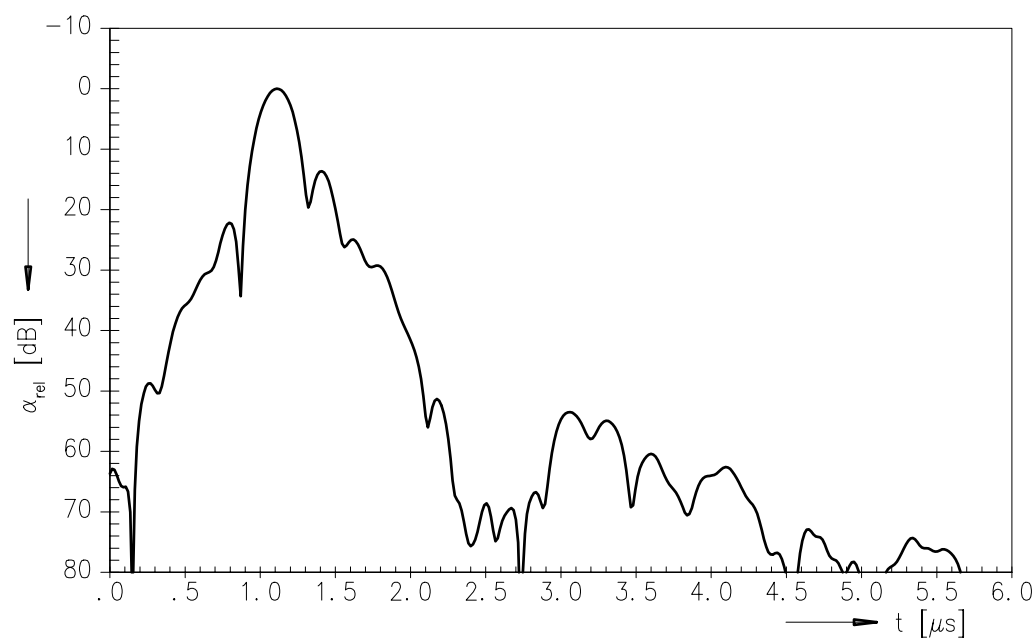
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Frequency response



Time domain response





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