



SAW Components

Data Sheet G 1961 M




SAW Components
G 1961 M
IF Filter for Intercarrier Applications
38,90 MHz
Data Sheet
Standard

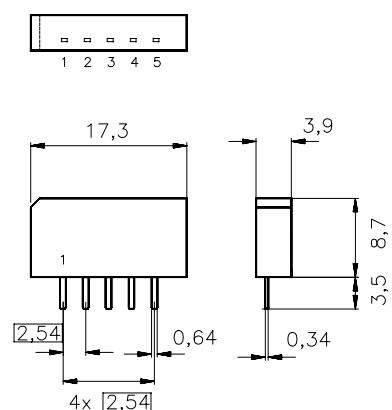
- B/G

 Plastic package **SIP5K**
Features

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

Terminals

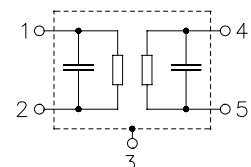
- Tinned CuFe alloy



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 1961 M | B39389-G1961-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 | 13,6 | 15,1 | 16,6 | dB |
| Relative attenuation | | | | | |
| | α_{rel} | | | | |
| Picture carrier | 38,90 MHz | 5,6 | 6,6 | 7,6 | dB |
| Color carrier | 34,47 MHz | 2,3 | 3,3 | 4,3 | dB |
| Sound carrier | 33,40 MHz | 19,3 | 20,3 | 21,3 | dB |
| Adjacent picture carrier UHF | 30,90 MHz | 46,0 | 58,0 | — | dB |
| VHF | 31,90 MHz | 48,0 | 64,0 | — | dB |
| | 32,40 MHz | 50,0 | 65,0 | — | dB |
| | 40,15 MHz | 40,0 | 49,0 | — | dB |
| Adjacent sound carrier VHF | 40,40 MHz | 46,0 | 59,0 | — | dB |
| UHF | 41,40 MHz | 42,0 | 53,0 | — | dB |
| Lower sidelobe | 25,00 ... 32,40 MHz | 37,0 | 46,0 | — | dB |
| Upper sidelobe | 40,40 ... 45,00 MHz | 36,0 | 44,0 | — | dB |
| Reflected wave signal suppression | | | | | |
| 1,3 μ s ... 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz) | | 44,0 | 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 predistortion | | | | | |
| (reference frequency 38,90 MHz) | | | | | |
| | $\Delta\tau$ | | | | |
| | 36,90 MHz | — | -90 | — | ns |
| | 34,47 MHz | — | 95 | — | ns |
| Impedance at 37,40 MHz | | | | | |
| Input: | $Z_{IN} = R_{IN} \parallel C_{IN}$ | — | 1,7 \parallel 13,0 | — | k Ω \parallel pF |
| Output: | $Z_{OUT} = R_{OUT} \parallel C_{OUT}$ | — | 1,4 \parallel 4,6 | — | k Ω \parallel pF |
| Temperature coefficient of frequency | | | | | |
| | TC_f | — | -72 | — | ppm/K |



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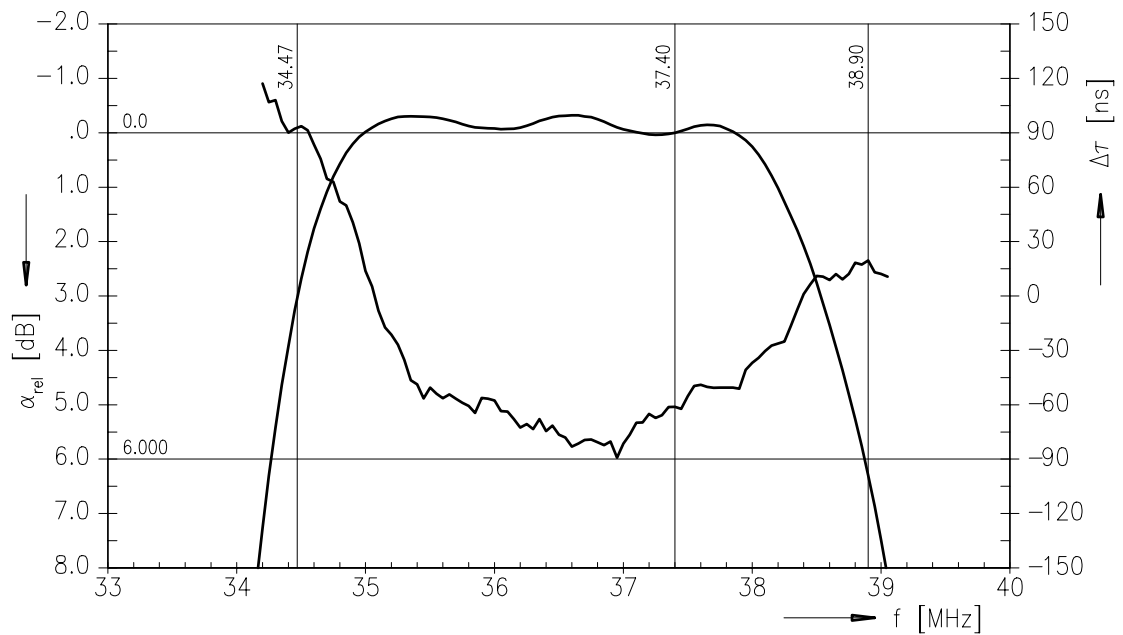
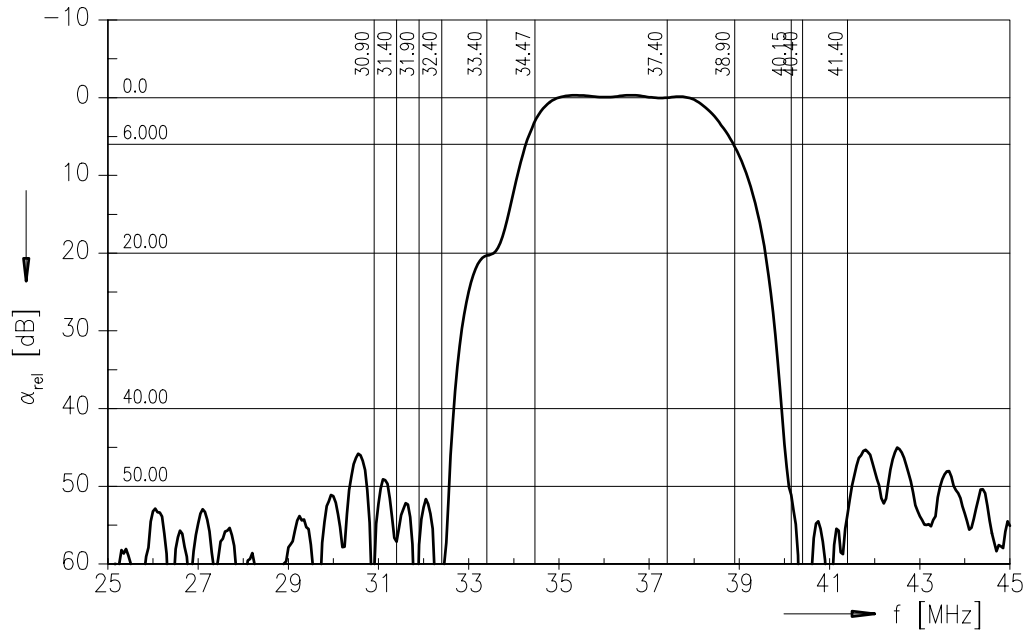
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Frequency response





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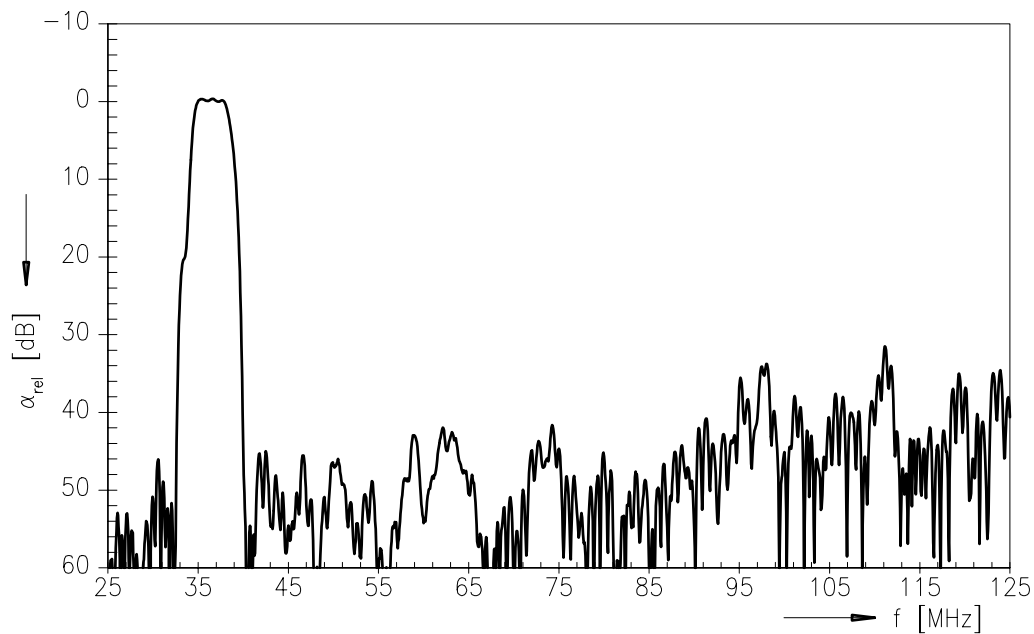
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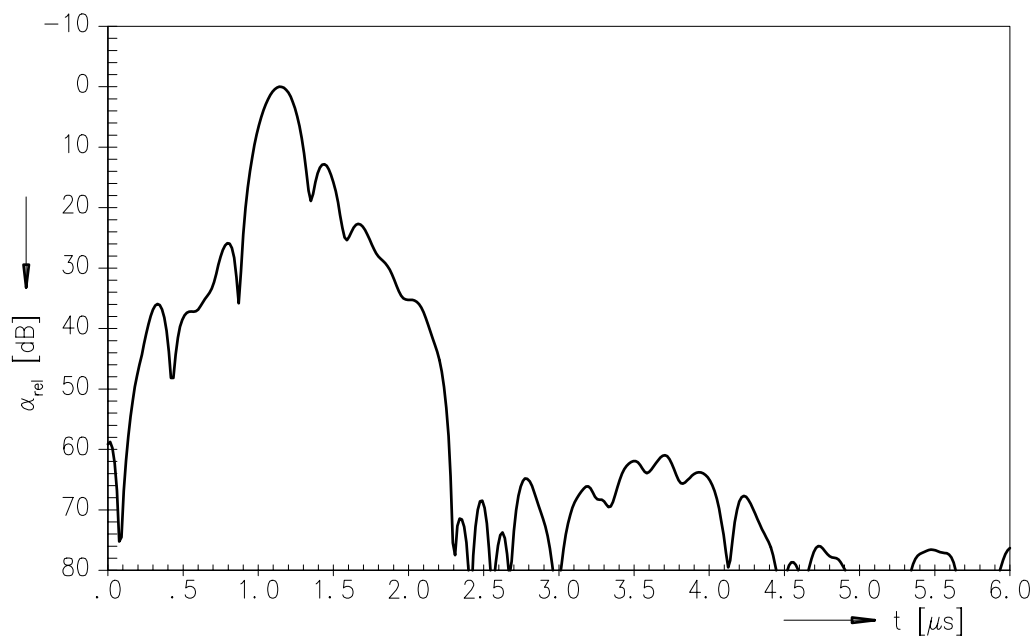
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Frequency response



Time domain response





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