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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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SAW Components

Data Sheet G 1963 M

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The word "EPCOS" is written in a bold, sans-serif font, with the letters appearing to be part of a curved, metallic-looking structure. The background is dark and textured, suggesting a circuit board or a similar technical surface.



SAW Components

G 1963 M

IF Filter for Intercarrier Applications

38,90 MHz

Data Sheet

Standard

Plastic package **SIP5K**

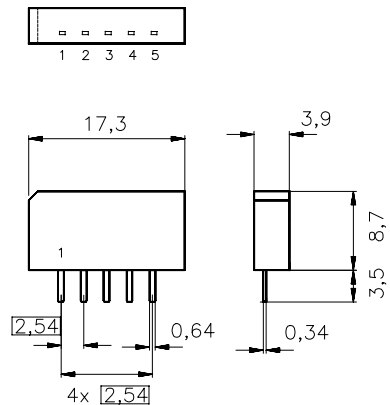
- B/G

Features

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

Terminals

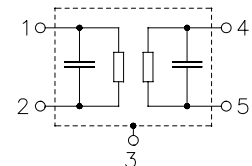
- Tinned CuFe alloy



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 1963 M | B39389-G1963-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

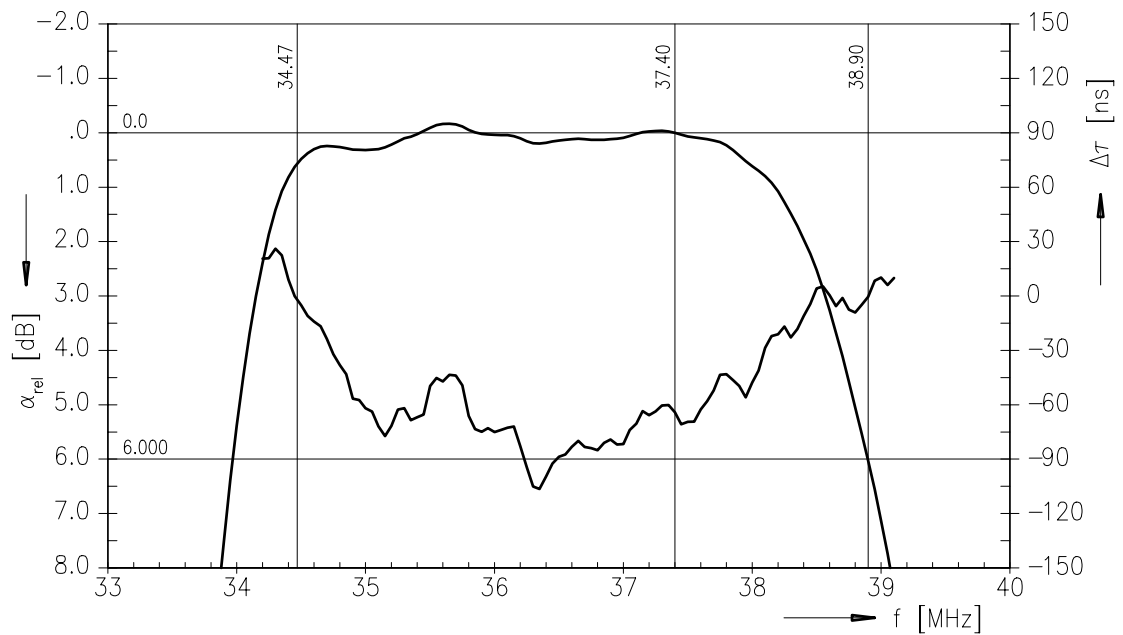
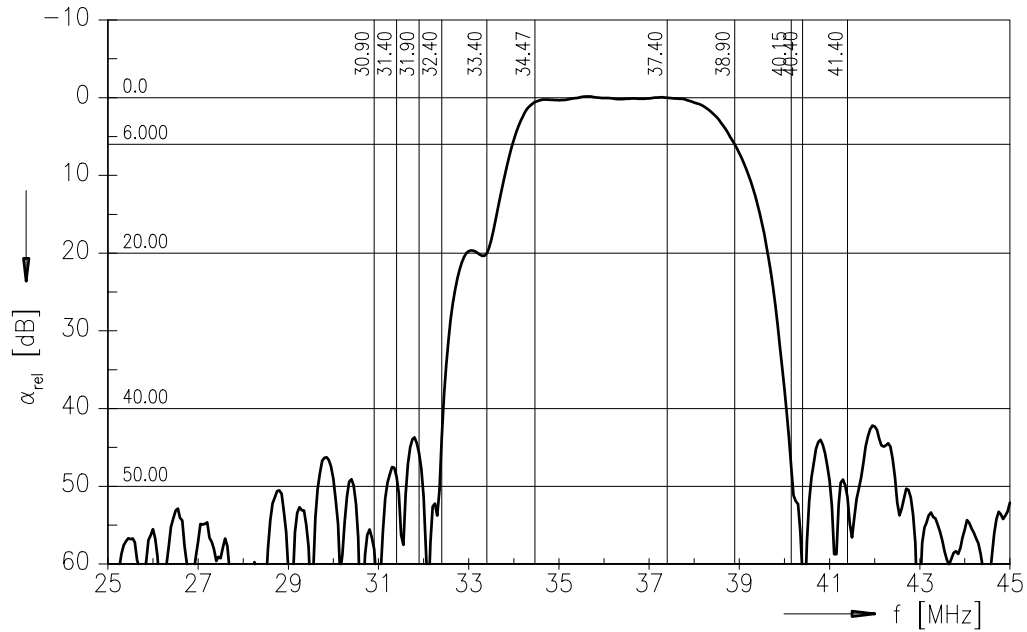
Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

| | | min. | typ. | max. | |
|--|---------------------|-------------|----------------------|-------------|---------------------------|
| Insertion attenuation | | | | | |
| | α | | | | |
| Reference level for the following data | 37,40 MHz | 12,7 | 14,2 | 15,7 | dB |
| Relative attenuation | | | | | |
| | α_{rel} | | | | |
| Picture carrier | 38,90 MHz | 4,9 | 5,9 | 6,9 | dB |
| Color carrier | 34,47 MHz | -0,4 | 0,6 | 1,6 | dB |
| | 34,15 MHz | — | 3,2 | — | dB |
| Sound carrier | 33,40 MHz | 19,1 | 20,1 | 21,1 | dB |
| Adjacent picture carrier UHF | 30,90 MHz | 44,0 | 55,0 | — | dB |
| VHF | 31,90 MHz | 42,0 | 46,0 | — | dB |
| | 32,40 MHz | 42,0 | 46,0 | — | dB |
| | 40,15 MHz | 42,0 | 50,0 | — | dB |
| Adjacent sound carrier VHF | 40,40 MHz | 45,0 | 53,0 | — | dB |
| UHF | 41,40 MHz | 42,0 | 49,0 | — | dB |
| Lower sidelobe | 25,00 ... 32,40 MHz | 41,0 | 45,0 | — | dB |
| Upper sidelobe | 40,40 ... 45,00 MHz | 36,0 | 40,0 | — | 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) | | 44,0 | 50,0 | — | 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) | $\Delta\tau$ | | | | |
| | 37,00 MHz | — | -85 | — | ns |
| | 34,47 MHz | — | 0 | — | ns |
| Impedance at 37,40 MHz | | | | | |
| Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ | | — | 1,8 \parallel 14,8 | — | k Ω \parallel pF |
| Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$ | | — | 1,6 \parallel 5,3 | — | k Ω \parallel pF |
| Temperature coefficient of frequency | | | | | |
| | TC_f | — | -72 | — | ppm/K |



Data Sheet

Frequency response





SAW Components

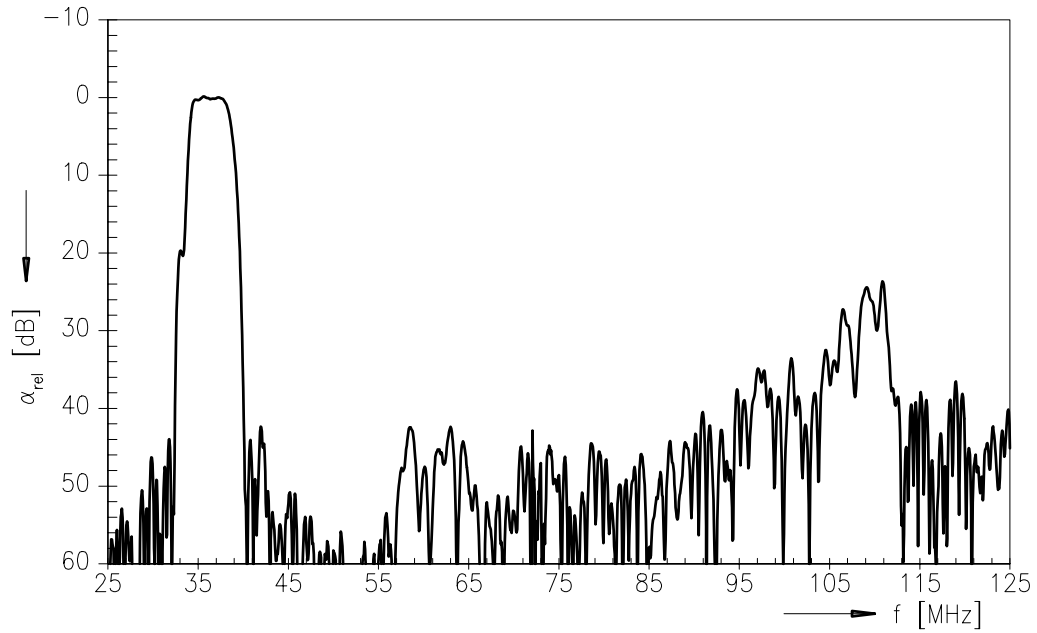
G 1963 M

IF Filter for Intercarrier Applications

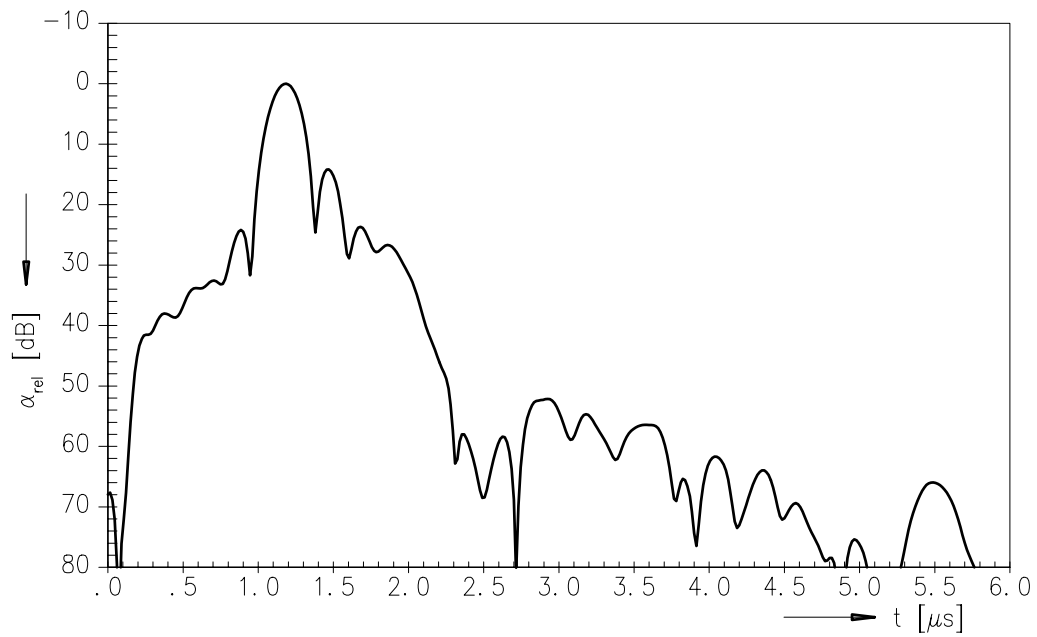
38,90 MHz

Data Sheet

Frequency response



Time domain response





SAW Components

G 1963 M

IF Filter for Intercarrier Applications

38,90 MHz

Data Sheet

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