



SAW Components

Data Sheet G 1986 M

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, stylized globe and circuitry patterns, suggesting a global and technological context.



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IF Filter for Intercarrier Applications

38,90 MHz

Data Sheet

Standard

Plastic package **SIP5K**

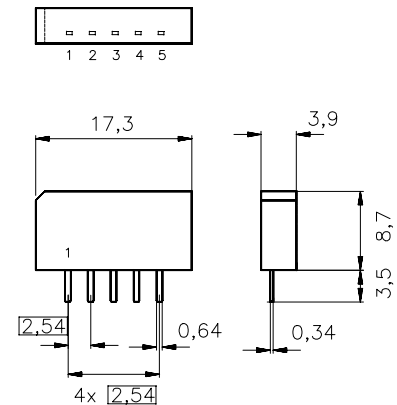
- B/G

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
- Extended sound shelf for NICAM reception

Terminals

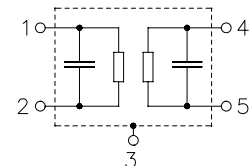
- Tinned CuFe alloy



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 1986 M	B39389-G1986-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: $T_A = 25\text{ }^{\circ}\text{C}$
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	14,3	15,8	17,3	dB
Relative attenuation α_{rel}					
Picture carrier	38,90 MHz	5,2	6,2	7,2	dB
Color carrier	34,47 MHz	-0,3	0,7	1,7	dB
Sound carrier	33,40 MHz	12,5	13,5	14,5	dB
	33,05 MHz	—	13,8	—	dB
Adjacent picture carrier	30,90 MHz	46,0	56,0	—	dB
	31,90 MHz	48,0	60,0	—	dB
	32,40 MHz	27,0	32,0	—	dB
	40,15 MHz	40,0	48,0	—	dB
Adjacent sound carrier	40,40 MHz	45,0	57,0	—	dB
	41,40 MHz	44,0	56,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	40,0	45,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	40,0	48,0	—	dB
Reflected wave signal suppression					
1,2 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		42,0	52,0	—	dB
Feedthrough signal suppression					
1,2 μs ... 1,1 μs 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)					
	36,90 MHz	—	-90	—	ns
	34,47 MHz	—	10	—	ns
Impedance at 37,40 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	2,1 $\parallel$ 10,4	—	k Ω $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	2,5 $\parallel$ 3,5	—	k Ω $\parallel$ pF
Temperature coefficient of frequency TC_f					
		—	-72	—	ppm/K



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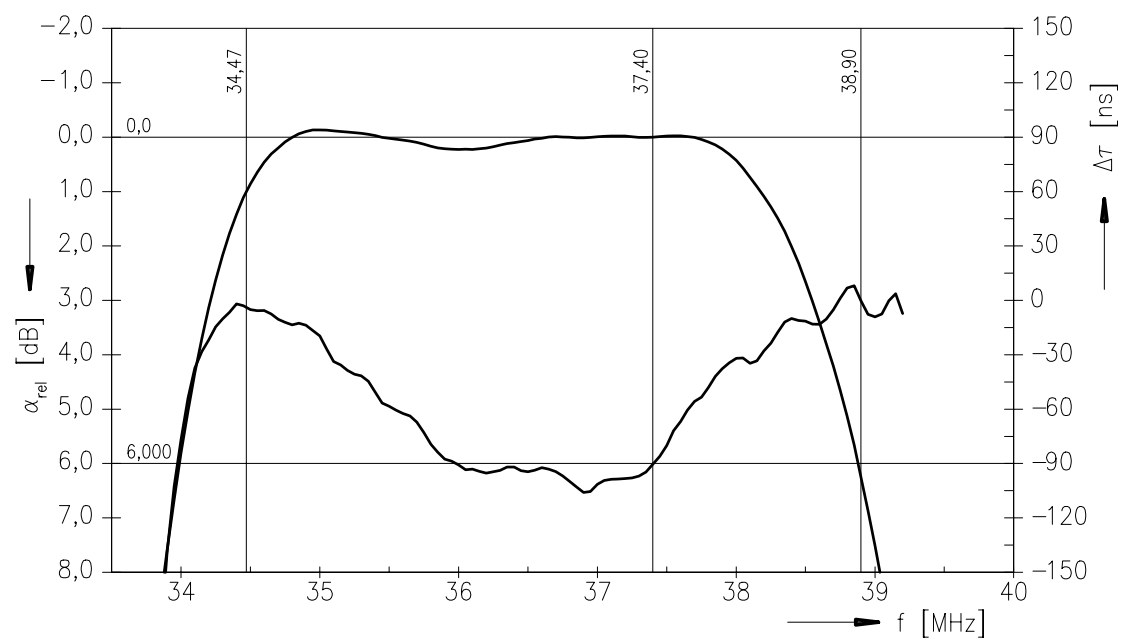
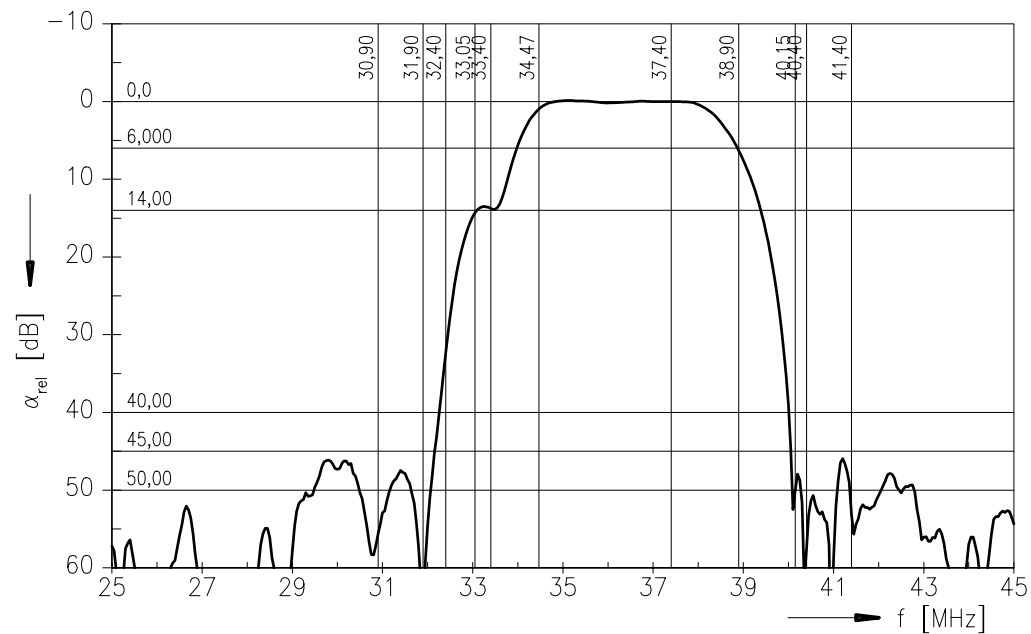
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Frequency response





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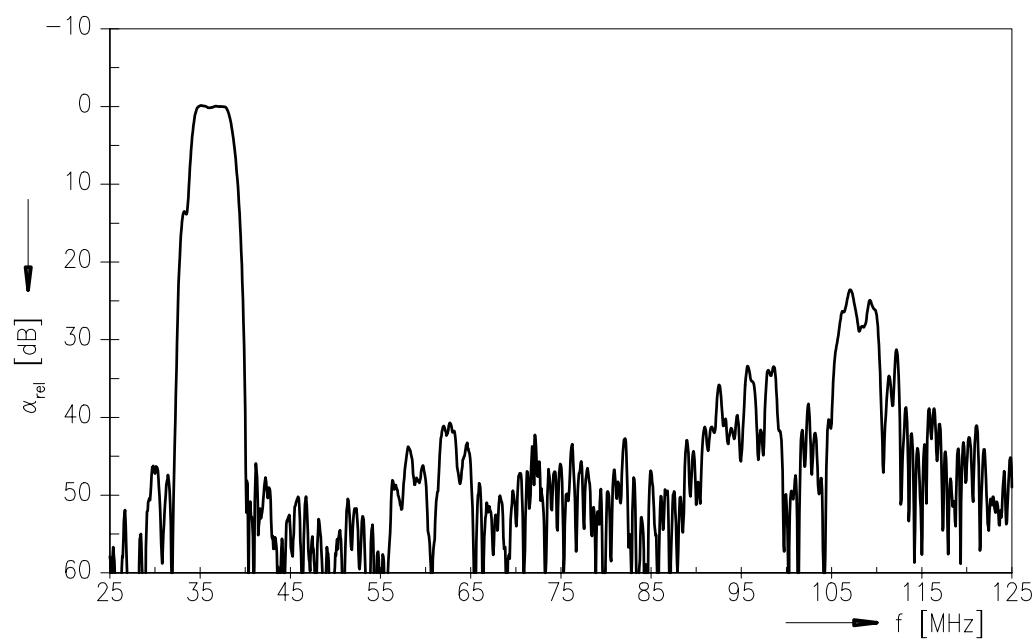
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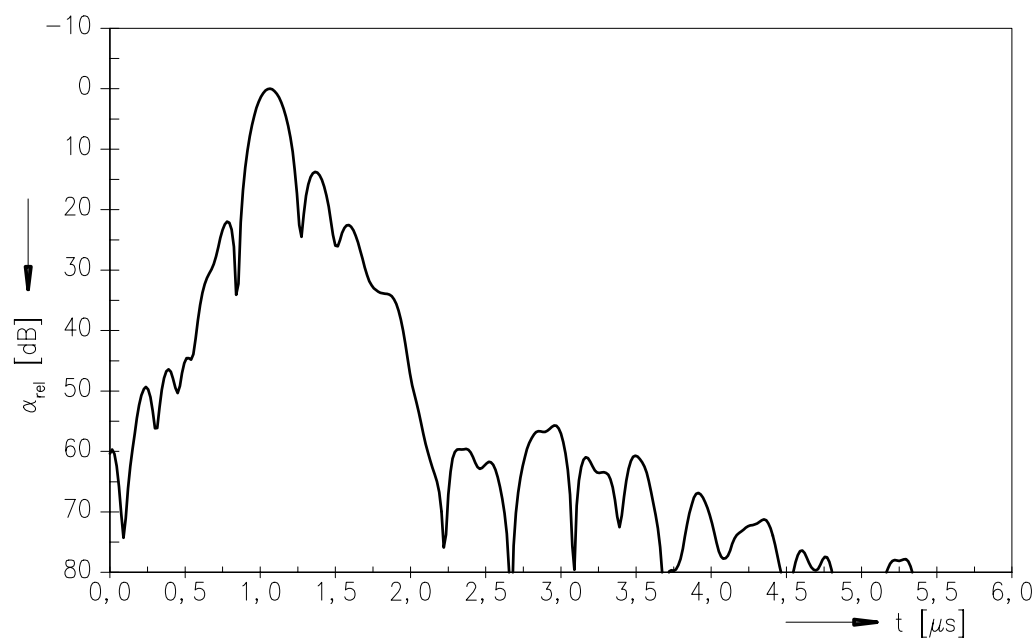
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Frequency response



Time domain response





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