



SAW Components

Data Sheet J 1980 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. In the background, there is a faint, glowing globe and a stylized, glowing, curved structure that resembles a wave or a stylized letter 'S'.



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IF Filter for Intercarrier Applications

38,90 MHz

Data Sheet

Standard

Plastic package **SIP5K**

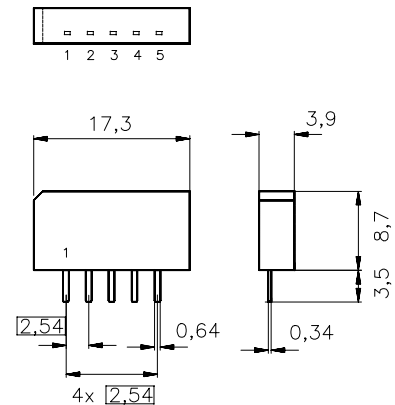
■ I

Features

- TV IF filter with Nyquist slope and sound shelf
- Extended sound shelf at 14 dB level for NICAM reception
- Constant group delay

Terminals

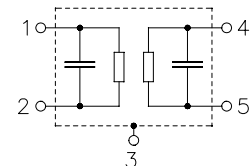
- Tinned CuFe alloy



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
J 1980 M	B39389-J1980-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: $Z_S = 50\text{ }\Omega$
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	37,00 MHz	14,2	15,7	17,2	dB
Relative attenuation	α_{rel}				
Picture carrier	38,90 MHz	5,2	6,2	7,2	dB
Color carrier	34,47 MHz	-0,8	0,2	1,2	dB
Sound carrier	32,90 MHz	12,8	13,8	14,8	dB
	32,35 MHz	12,8	13,8	—	dB
Adjacent picture carrier	30,90 MHz	46,0	54,0	—	dB
Adjacent sound carrier	40,90 MHz	44,0	53,0	—	dB
	40,35 MHz	40,0	46,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	44,0	52,0	—	dB
Upper sidelobe	40,90 ... 45,00 MHz	40,0	48,0	—	dB
Reflected wave signal suppression					
1,2 μ s ... 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 37,00 MHz)		42,0	56,0	—	dB
Feedthrough signal suppression					
1,2 μ s ... 1,1 μ s before main pulse (test pulse 250 ns, carrier frequency 37,00 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$		30		ns
Impedance at 37,00 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,6 $\parallel$ 14,4	—	k Ω $\parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	2,0 $\parallel$ 3,8	—	k Ω $\parallel$ pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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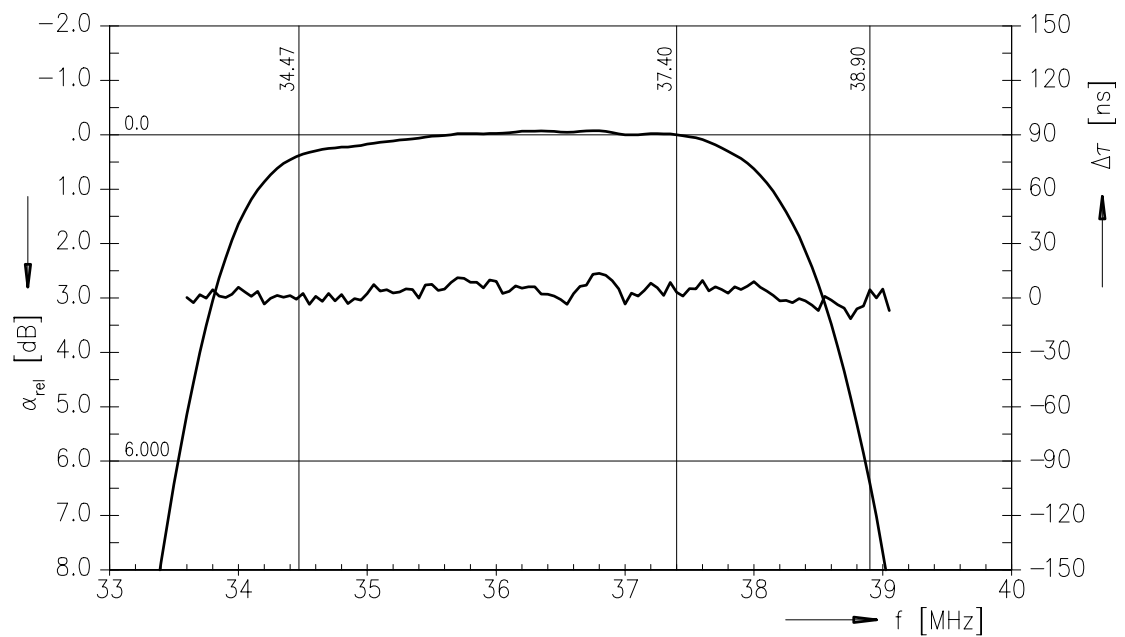
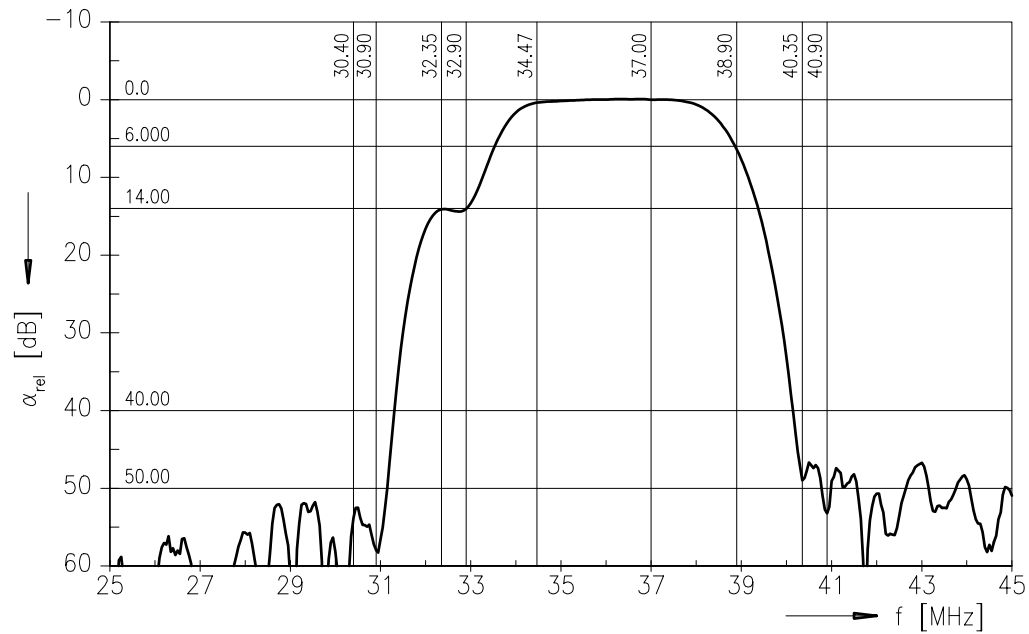
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Frequency response





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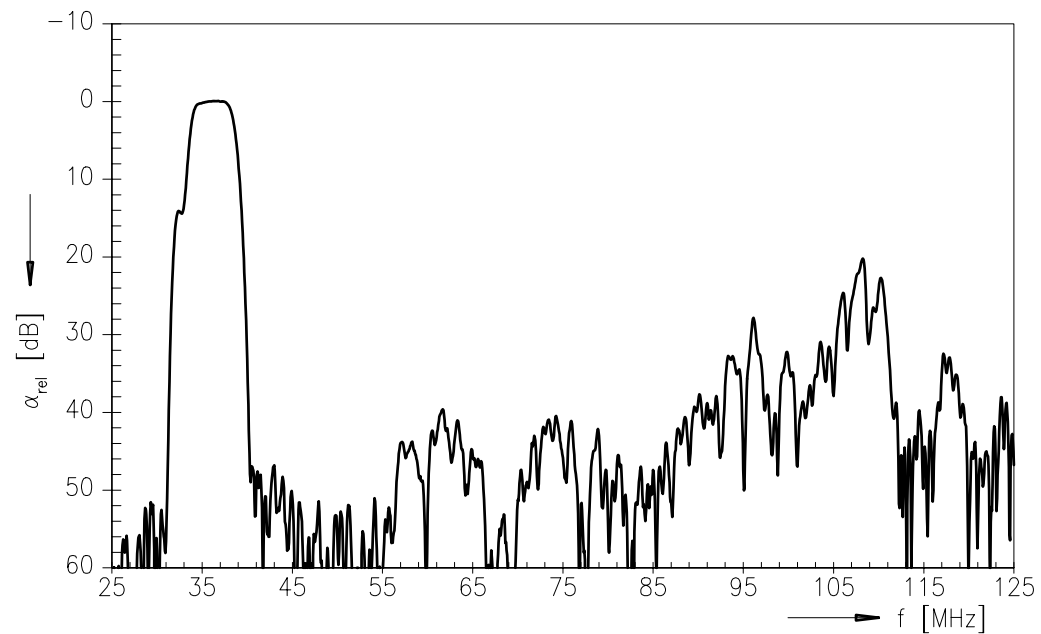
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IF Filter for Intercarrier Applications

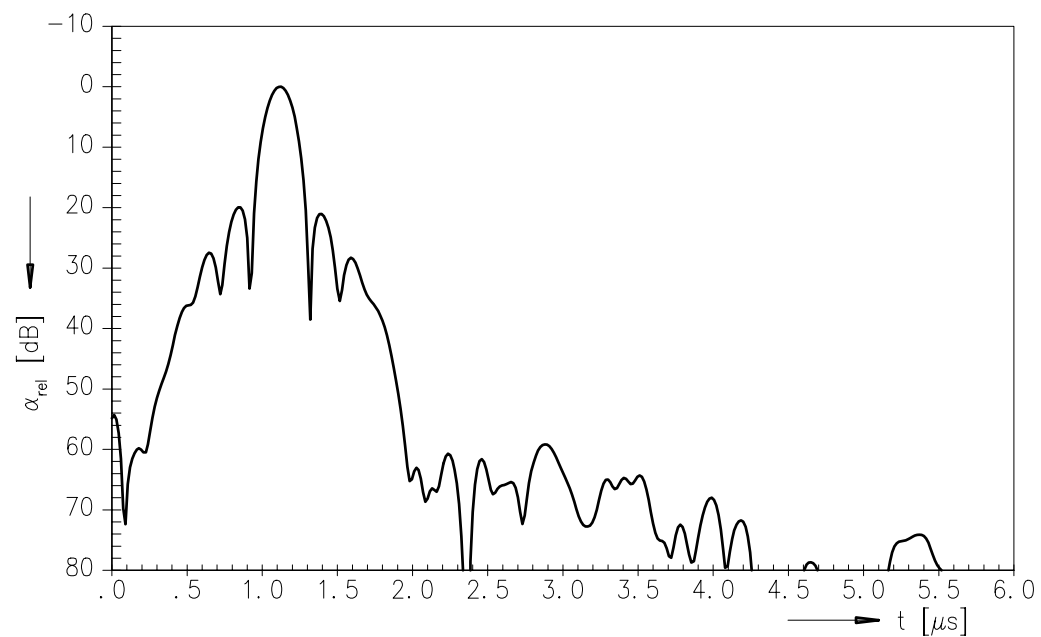
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Frequency response



Time domain response





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