



SAW Components

Data Sheet G 1965 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 1965 M

IF Filter for Intercarrier Applications

38,90 MHz

Data Sheet

Standard

Plastic package **SIP5K**

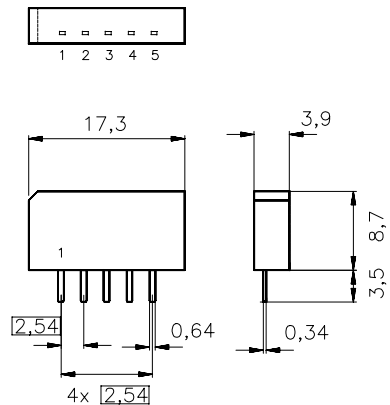
- B/G

Features

- TV IF filter with Nyquist slope and sound shelf
- High color carrier level
- Constant group delay
- Suitable for CENELEC EN 55020

Terminals

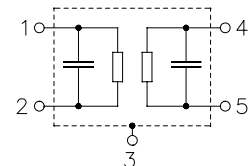
- Tinned CuFe alloy



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 1965 M	B39389-G1965-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:

$T_A = 25 \text{ }^\circ\text{C}$

Terminating source impedance:

$Z_S = 50 \text{ } \Omega$

Terminating load impedance:

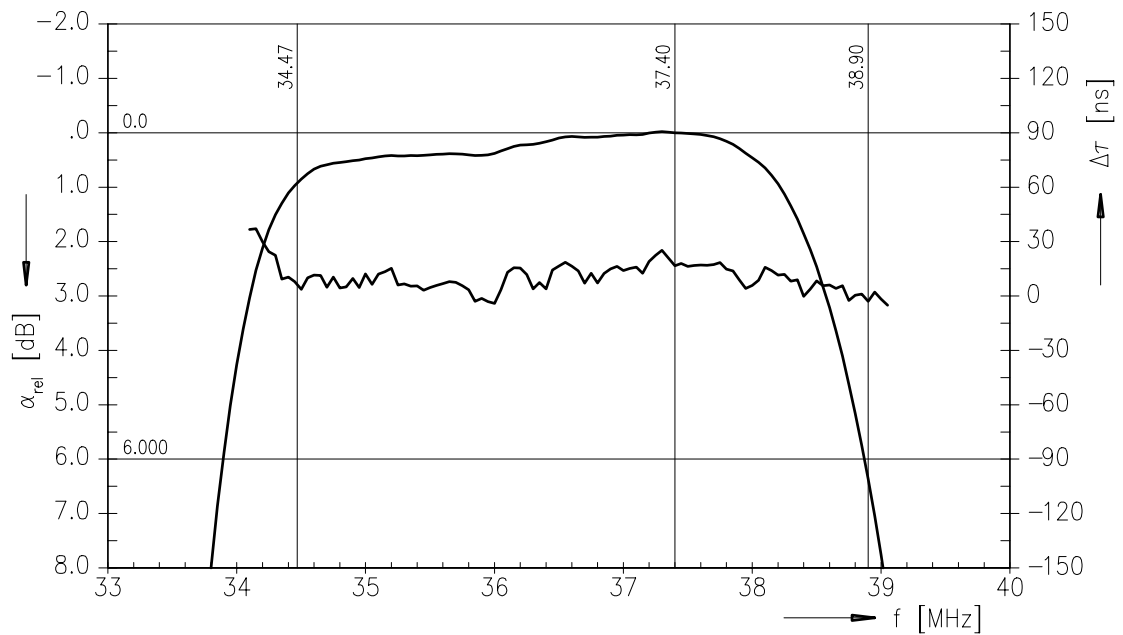
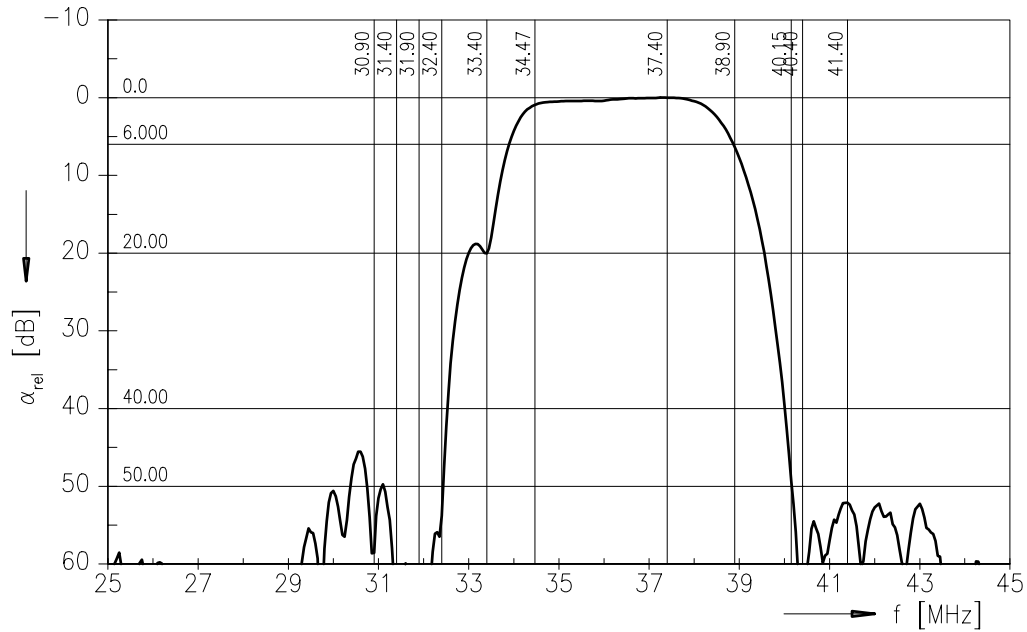
$Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	37,40 MHz	13,6	15,1	16,6	dB
Relative attenuation					
	α_{rel}				
Picture carrier	38,90 MHz	5,0	6,0	7,0	dB
	33,90 MHz	—	6,2	—	dB
Color carrier	34,47 MHz	0,0	1,0	2,0	dB
Sound carrier	33,40 MHz	18,9	20,4	21,9	dB
Adjacent picture carrier UHF	30,90 MHz	45,0	57,0	—	dB
	VHF				
	31,90 MHz	48,0	55,0	—	dB
	31,40 MHz	46,0	61,0	—	dB
	32,40 MHz	48,0	55,0	—	dB
	40,15 MHz	38,0	48,0	—	dB
Adjacent sound carrier VHF	40,40 MHz	44,0	55,0	—	dB
	UHF				
	41,40 MHz	42,0	53,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz	40,0	47,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	38,0	48,0	—	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	53,0	—	dB
Feedthrough signal suppression					
1,3 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 ripple (p-p)	$\Delta\tau$	—	50	—	ns
Impedance at 37,40 MHz					
	Input: $Z_{IN} = R_{IN} \parallel C_{IN}$	—	1,9 \parallel 13,8	—	k Ω \parallel pF
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	1,5 \parallel 4,8	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



Data Sheet

Frequency response





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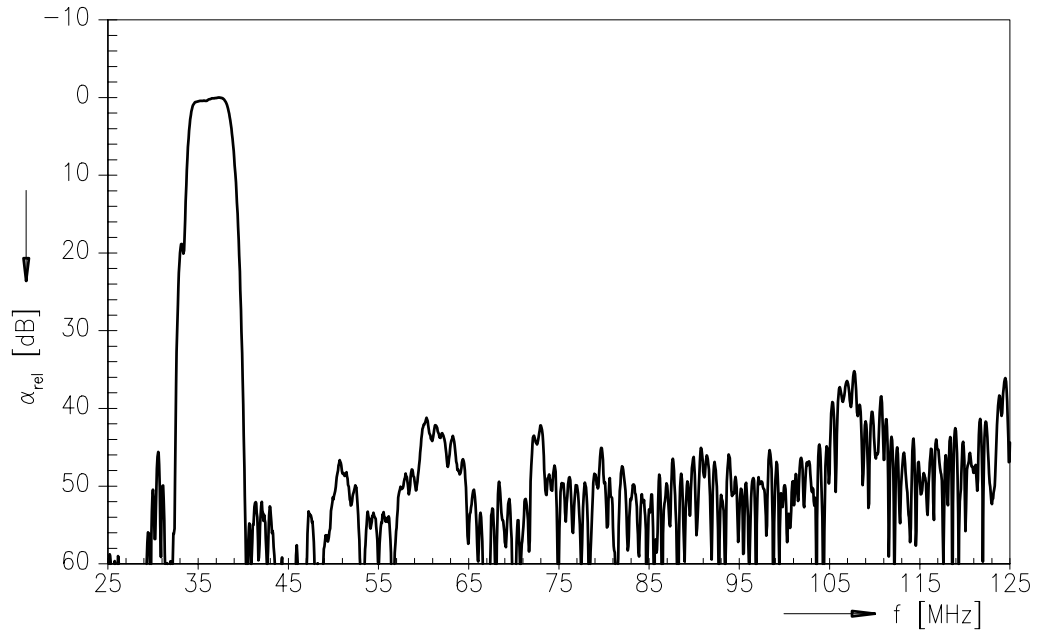
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IF Filter for Intercarrier Applications

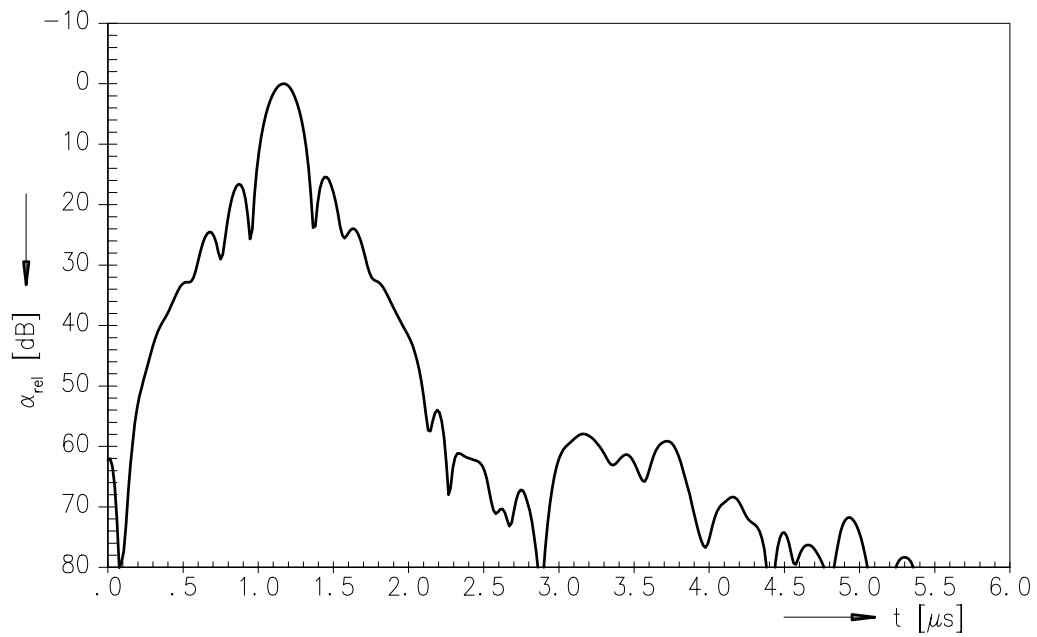
38,90 MHz

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Frequency response



Time domain response





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