



SAW Components

Data Sheet K 2966 M

Data Sheet



EPCOS



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IF Filter for Intercarrier Applications

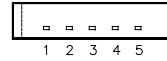
38,90 MHz

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Standard

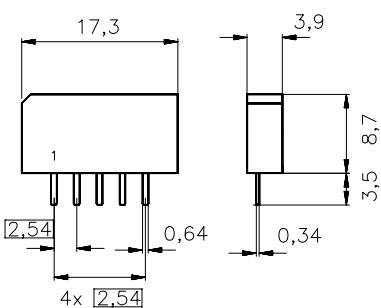
- B/G
- D/K

Plastic package **SIP5K**



Features

- TV IF filter with Nyquist slope and sound shelf
- Broad sound shelf for sound carriers at 32,40 MHz and 33,40 MHz
- Group delay predistortion



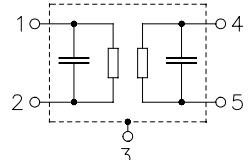
Terminals

- 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
K 2966 M	B39389-K2966-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: $T_A = 25^\circ\text{C}$
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	15,7	17,2	18,7	dB
Relative attenuation	α_{rel}				
Picture carrier	38,90 MHz	4,6	5,6	6,6	dB
Color carrier	34,47 MHz	2,1	3,1	4,1	dB
Sound carrier	32,40 MHz	18,9	20,4	21,9	dB
	33,40 MHz	17,8	19,3	—	dB
Adjacent picture carrier	30,90 MHz	48,0	62,0	—	dB
	31,90 MHz	40,0	58,0	—	dB
Adjacent sound carrier	40,40 MHz	45,0	58,0	—	dB
	41,40 MHz	44,0	58,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	42,0	48,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	36,0	42,0	—	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	54,0	—	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	—	-55	—	ns
	34,47 MHz	—	45	—	ns
Impedance at 37,40 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	2,2 \parallel 11,9	—	$\text{k}\Omega \parallel \text{pF}$
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	3,3 \parallel 2,8	—	$\text{k}\Omega \parallel \text{pF}$
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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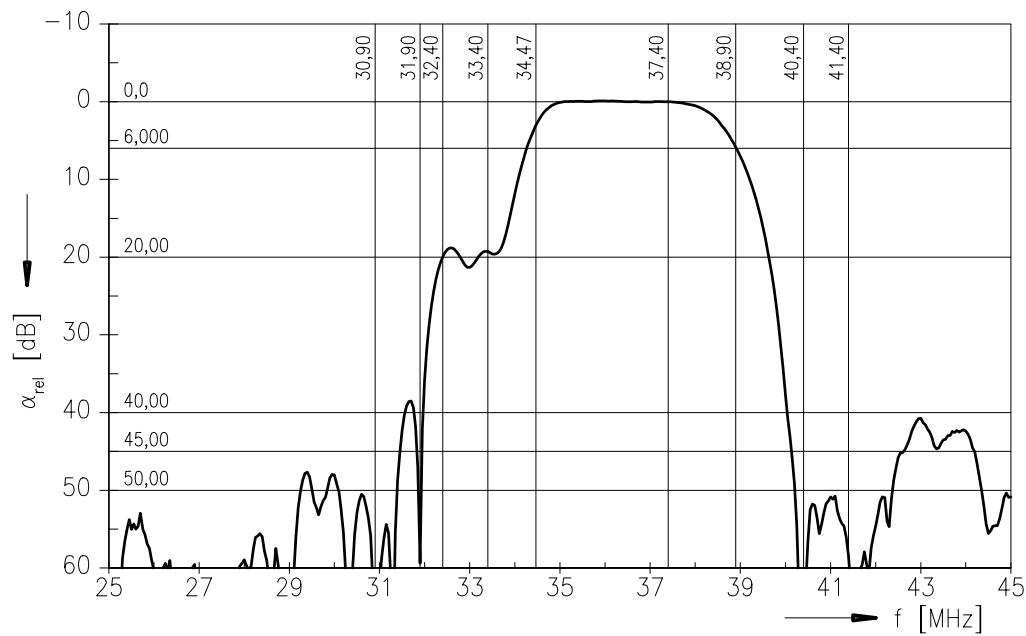
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Frequency response



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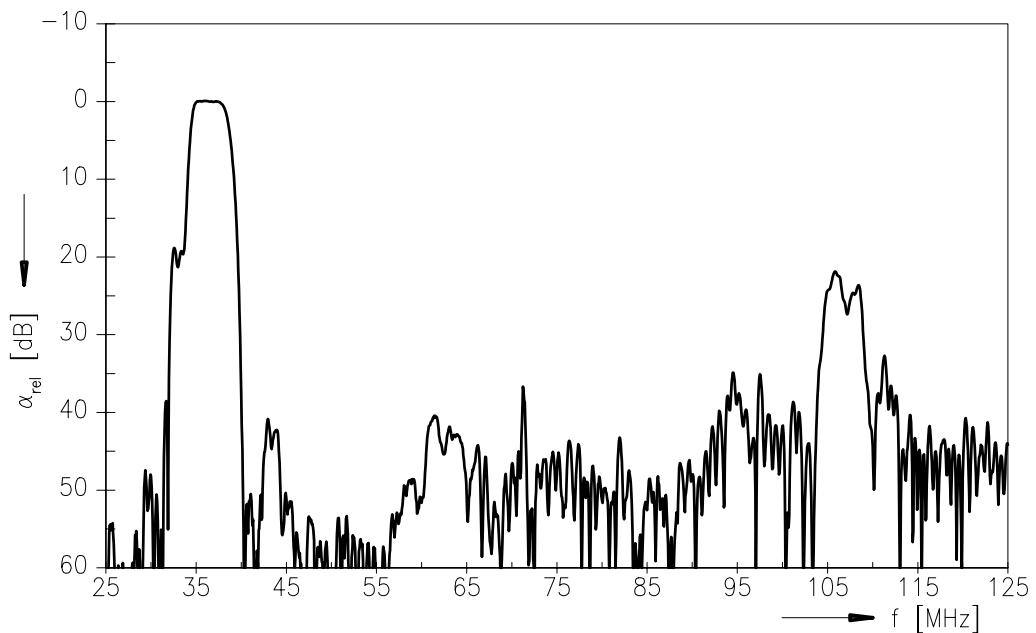
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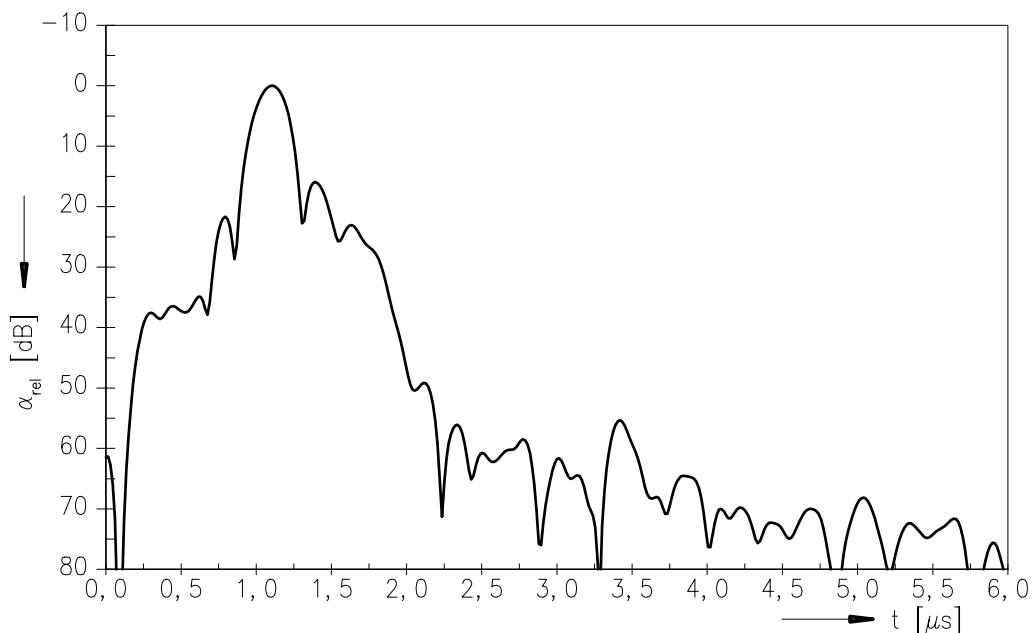
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Frequency response



Time domain response





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