EPCOS

SAW Components

Data Sheet K 2962 M

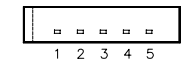
IF Filter for Intercarrier Applications 33,90 MHz and 38,90MHz

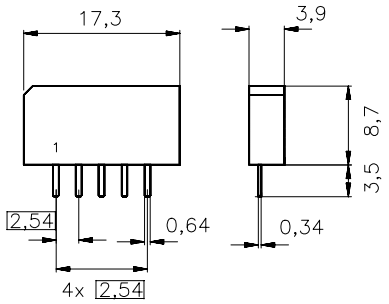
Data Sheet

Standard

- B/G
- I
- L/L'

Plastic package **SIP5K**





Features

- TV IF filter with two Nyquist slope and sound shelf
- Picture carriers at 33,90 MHz and 38,90 MHz
- Broad sound shelf at 15 dB level for sound carriers at 32,90 MHz and 33,40 MHz
- Constant group delay

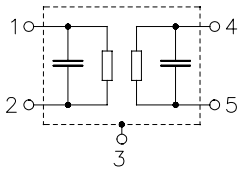
Terminals

- 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
K 2962 M	B39389-K2962-M100	C61157-A1-A15	F61074-V8067-Z000

Maximum ratings

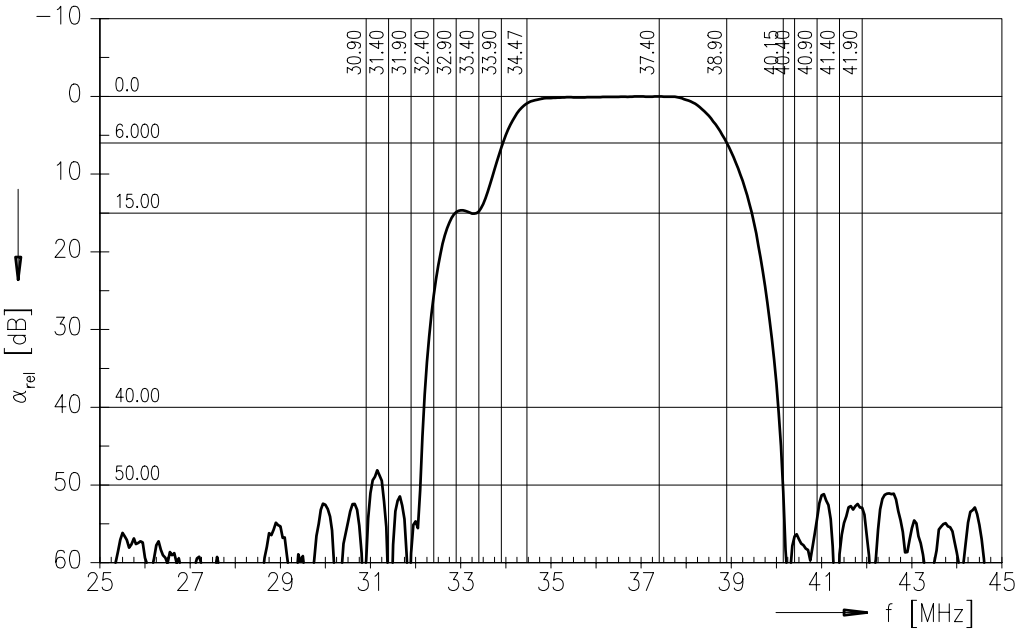
Operable temperature range	T_A	–25/+65	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

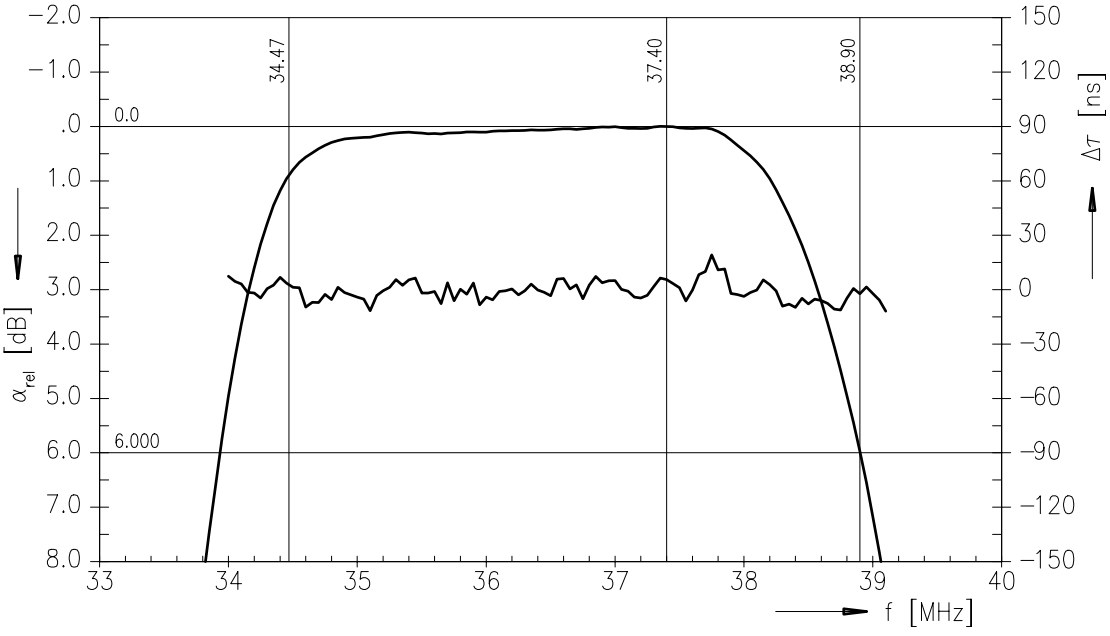
Characteristics

Reference temperature: T_A = 25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2 kΩ || 3 pF

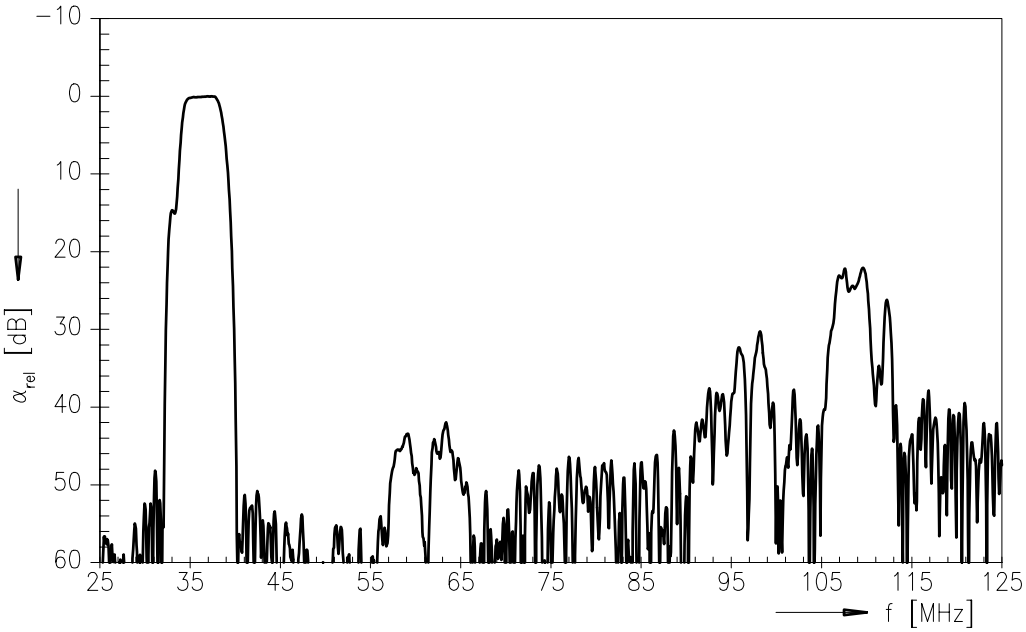
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data		37,40 MHz		13,0	14,5	16,0	dB
Relative attenuation			α_{rel}				
Picture carrier		38,90 MHz		4,6	5,6	6,6	dB
		33,90 MHz		5,8	6,8	7,8	dB
Color carrier		34,47 MHz		0,0	1,0	2,0	dB
Sound carrier		33,40 MHz		—	14,8	—	dB
		32,90 MHz		—	14,9	—	dB
Adjacent picture carrier		31,90 MHz		44,0	56,0	—	dB
Adjacent sound carrier		40,40 MHz		42,0	50,0	—	dB
Lower sidelobe	25,00 ...	31,90 MHz		40,0	47,0	—	dB
Upper sidelobe	40,40 ...	45,00 MHz		40,0	47,0	—	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 ripple (p-p)			$\Delta\tau$	—	40	—	ns
Impedance at 37,40 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				—	1,5 || 15,1	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	1,8 || 3,9	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–72	—	ppm/K

Frequency response

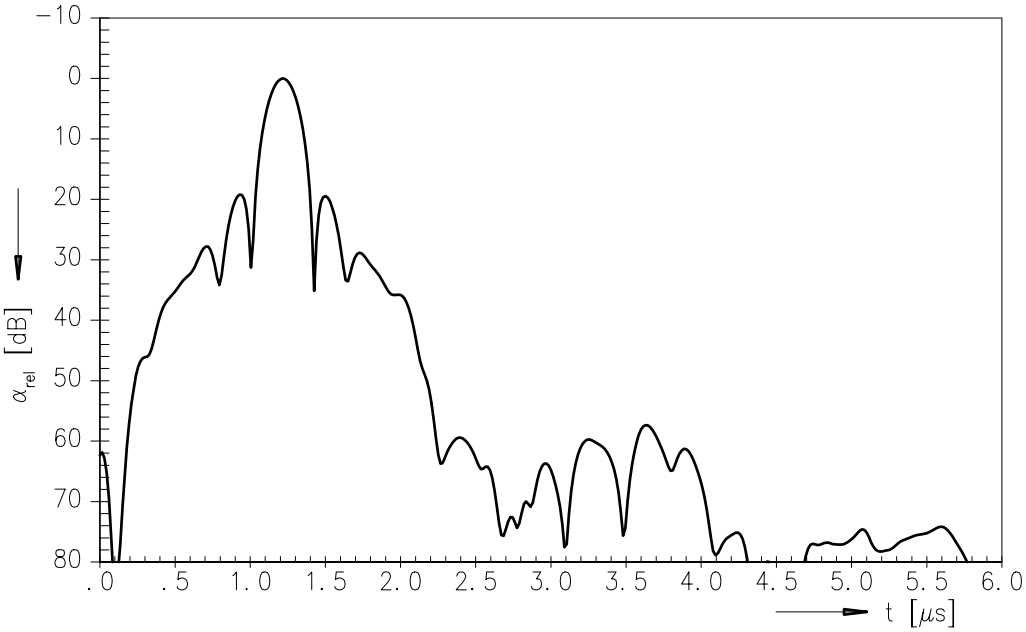




Frequency response



Time domain response



Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW CE MM PD
P.O. Box 80 17 09, D-81617 München

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