



SAW Components

Data Sheet M 4952 M

Data Sheet

EPCOS



SAW Components	M 4952 M
Vestigial Sideband Filter	45,75 MHz

Data Sheet

Standard

Plastic package **SIP5K**

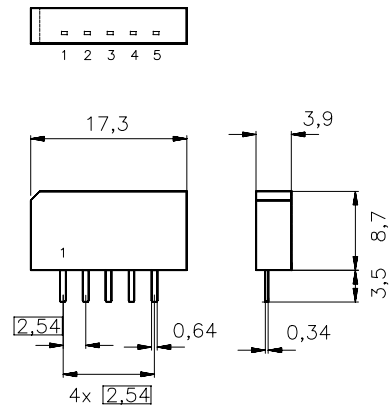
- M/N

Features

- IF filter for cable converters
- Full transmission of vestigial sideband and sound carrier
- Constant group delay

Terminals

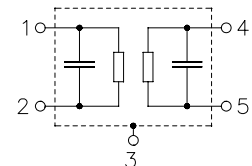
- Tinned CuFe alloy



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
M 4952 M	B39458-M4952-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:	$T_A = 25 \text{ (45)} ^\circ \text{C}$
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	43,56 (43,50) MHz	13,3	14,8	16,3	dB
Relative attenuation	α_{rel}				
Picture carrier	45,81 (45,75) MHz	-1,1	-0,1	0,9	dB
	46,56 (46,50) MHz	4,2	5,7	7,2	dB
Color carrier	42,23 (42,17) MHz	-0,9	0,1	1,1	dB
Sound carrier	41,31 (41,25) MHz	-1,4	-0,4	0,6	dB
Adjacent picture carrier	39,81 (39,75) MHz	36,0	53,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	30,0	35,0	—	dB
	51,31 (51,25) MHz	40,0	54,0	—	dB
Lower sidelobe					
	35,06 ... 39,81 (35,00 ... 39,75) MHz	35,0	41,0	—	dB
Upper sidelobe					
	47,91 ... 55,06 (47,85 ... 55,00) MHz	38,0	45,0	—	dB
Reflected wave signal suppression					
1,2 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 43,56 MHz)		42,0	54,0	—	dB
Feedthrough signal suppression					
1,2 μs ... 1,1 μs before main pulse (test pulse 250 ns, carrier frequency 43,56 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$				
	40,56 ... 46,56 (40,50 ... 46,50) MHz	—	50	—	ns
Impedance at 43,56 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1,4 $\parallel$ 12,7	—	k Ω $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	1,2 $\parallel$ 4,4	—	k Ω $\parallel$ pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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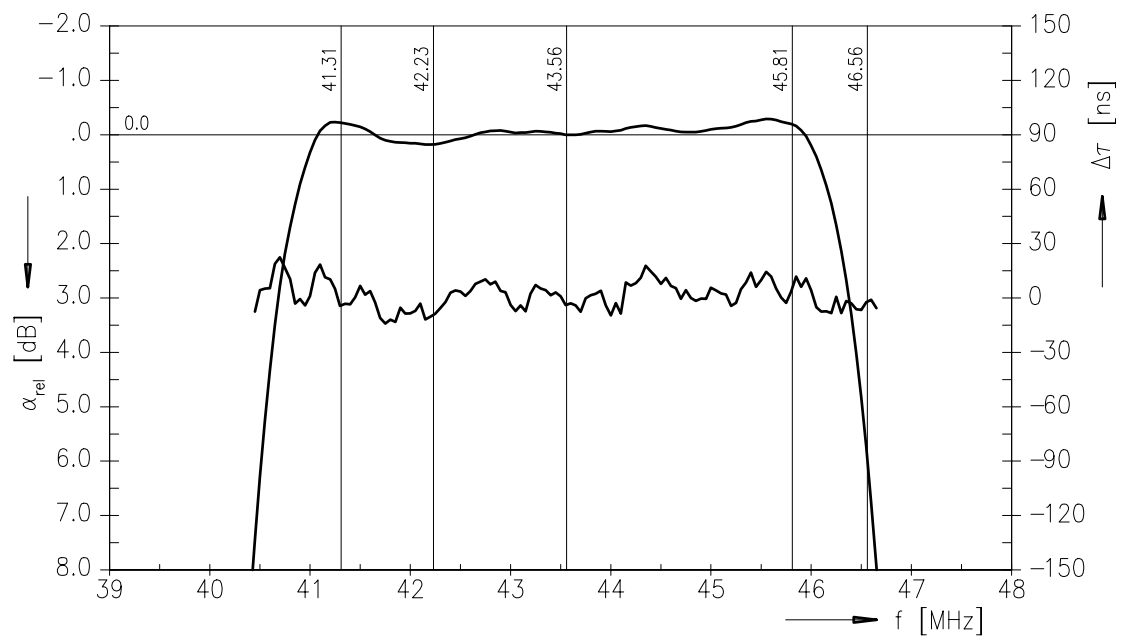
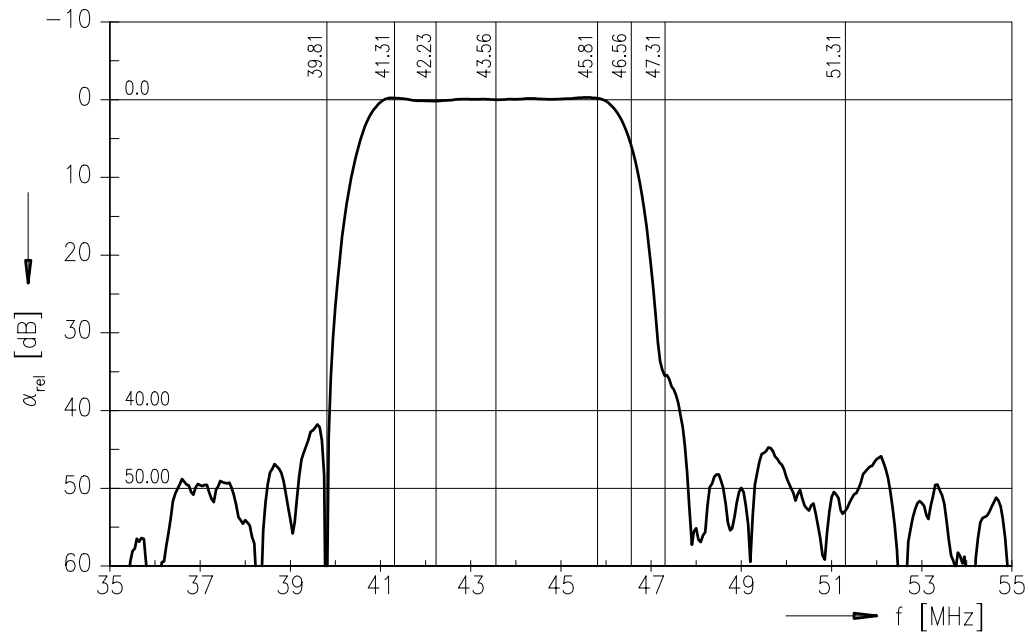
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Vestigial Sideband Filter

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Frequency response





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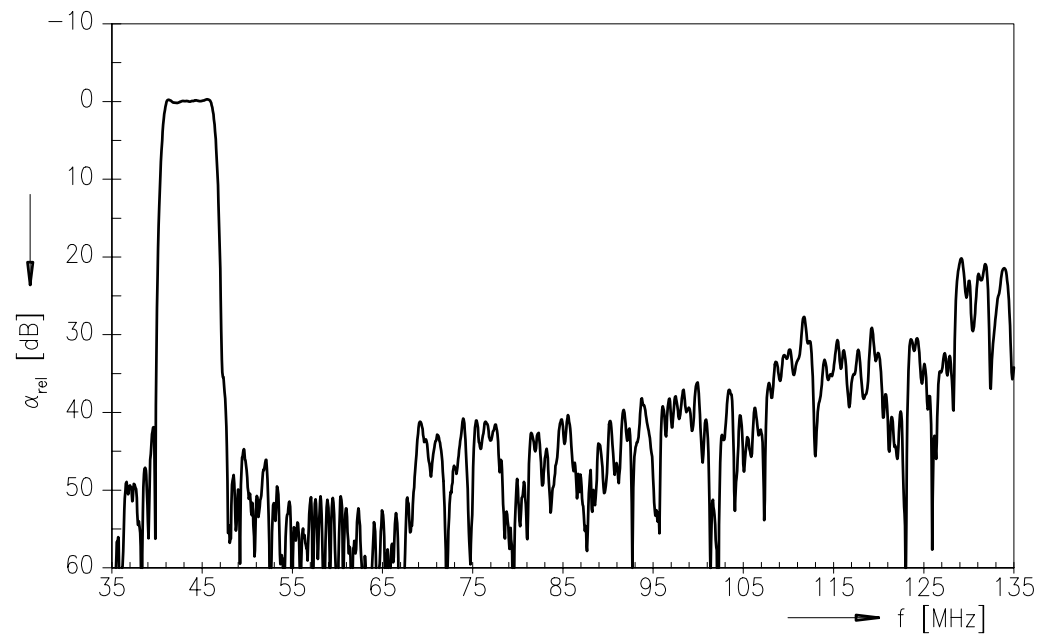
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Vestigial Sideband Filter

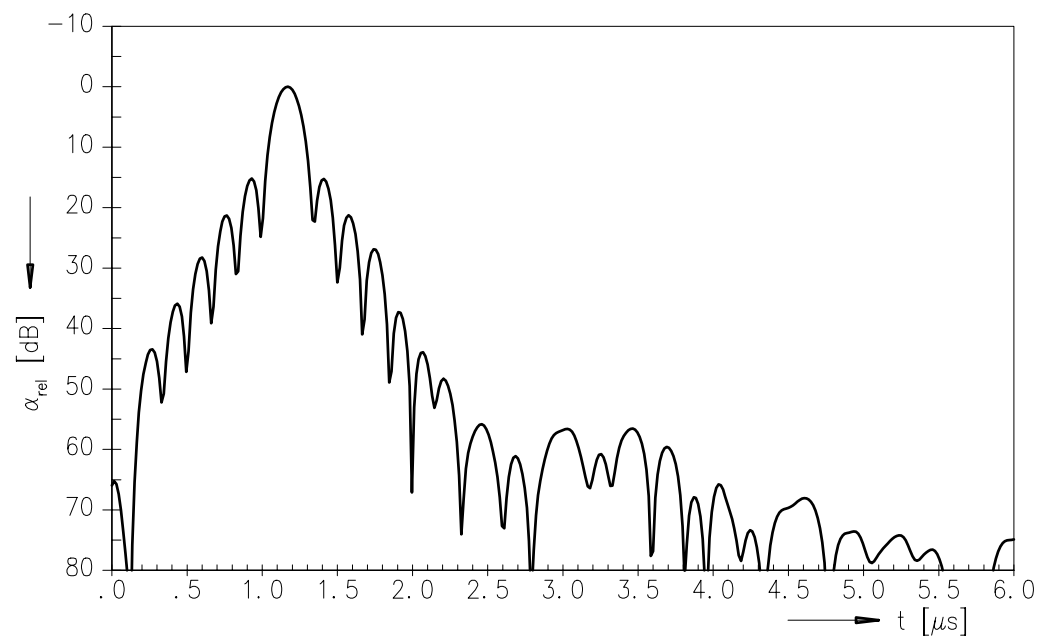
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Frequency response



Time domain response





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