



# SAW Components

Data Sheet M 1865 D





**SAW Components**

**M 1865 D**

**IF Filter for Intercarrier Applications**

**45,75 MHz**

**Data Sheet**

**Standard**

Duroplast package **SIP5D**

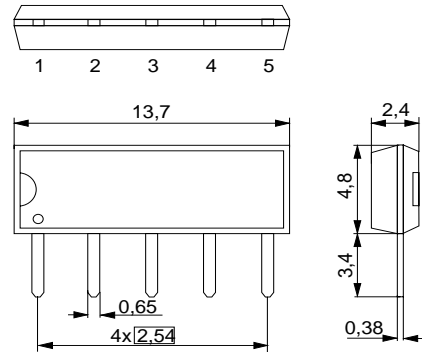
- M/N

**Features**

- TV IF filter with Nyquist slope and sound shelf
- Constant group delay
- Standard IC package

**Terminals**

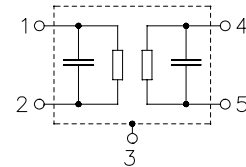
- Tinned CuFe alloy



Dimensions in mm, approx. weight 0,5 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 1865 D	B39458-M1865-N201	C61157-A1-A21	F61074-V8049-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**

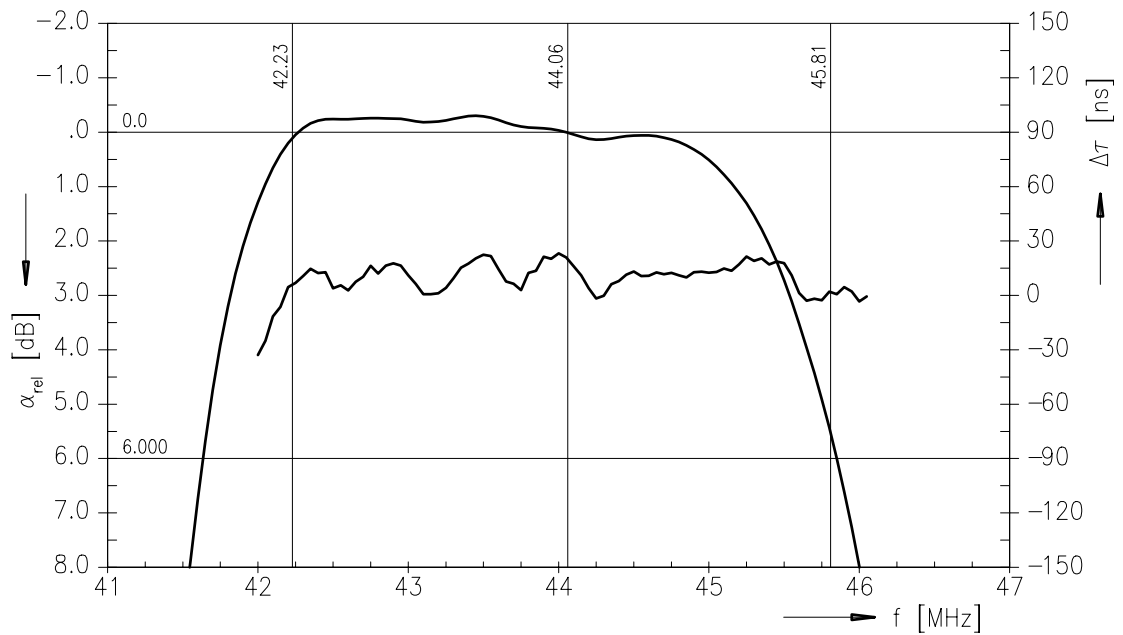
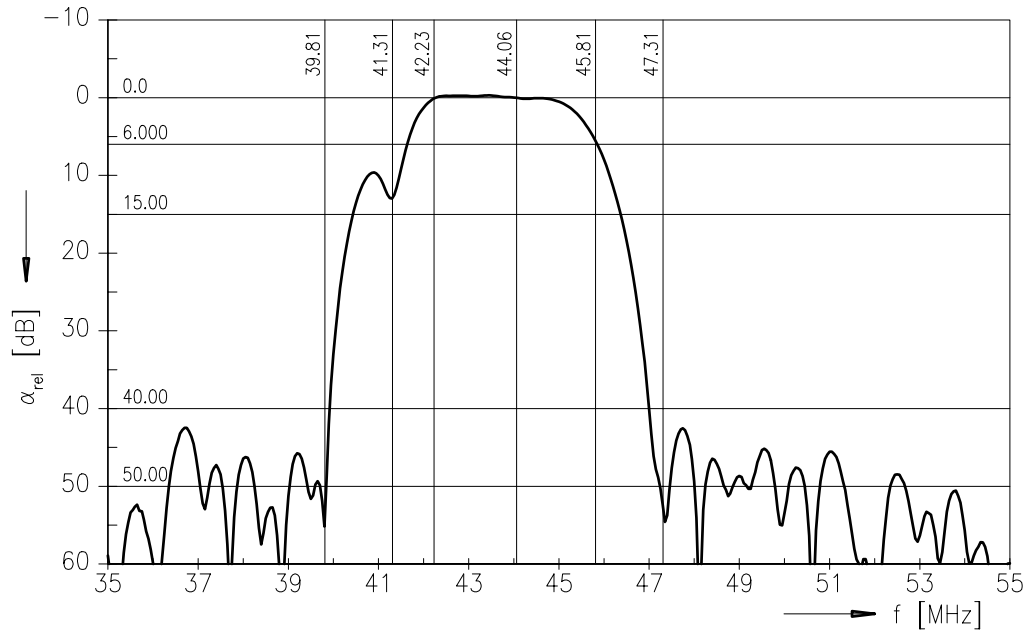
Reference temperature:  $T_A = 25 (45) \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Insertion attenuation</b>					
	$\alpha$				
Reference level for the following data	44,06 (44,00) MHz	11,6	13,1	14,6	dB
<b>Relative attenuation</b>					
	$\alpha_{rel}$				
Picture carrier	45,81 (45,75) MHz	4,3	5,3	6,3	dB
Color carrier	42,23 (42,17) MHz	-0,7	0,3	1,3	dB
Sound carrier	41,31 (41,25) MHz	11,8	13,3	14,8	dB
Adjacent picture carrier	39,81 (39,75) MHz	43,0	56,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	43,0	53,0	—	dB
Lower sidelobe					
	35,06 ... 39,81 (35,00 ... 39,75) MHz	37,0	43,0	—	dB
Upper sidelobe					
	47,31 ... 55,06 (47,25 ... 55,00) MHz	37,0	43,0	—	dB
<b>Reflected wave signal suppression</b>					
1,2 $\mu\text{s}$ ... 6,0 $\mu\text{s}$ after main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		42,0	52,0	—	dB
<b>Feedthrough signal suppression</b>					
1,0 $\mu\text{s}$ ... 0,9 $\mu\text{s}$ before main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		50,0	56,0	—	dB
<b>Group delay ripple (p-p)</b>					
	$\Delta\tau$	—	50	—	ns
<b>Impedance at 44,06 MHz</b>					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,1 $\parallel$ 14,7	—	k $\Omega$ $\parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,4 $\parallel$ 3,1	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>					
	$TC_f$	—	-72	—	ppm/K



Data Sheet

Frequency response





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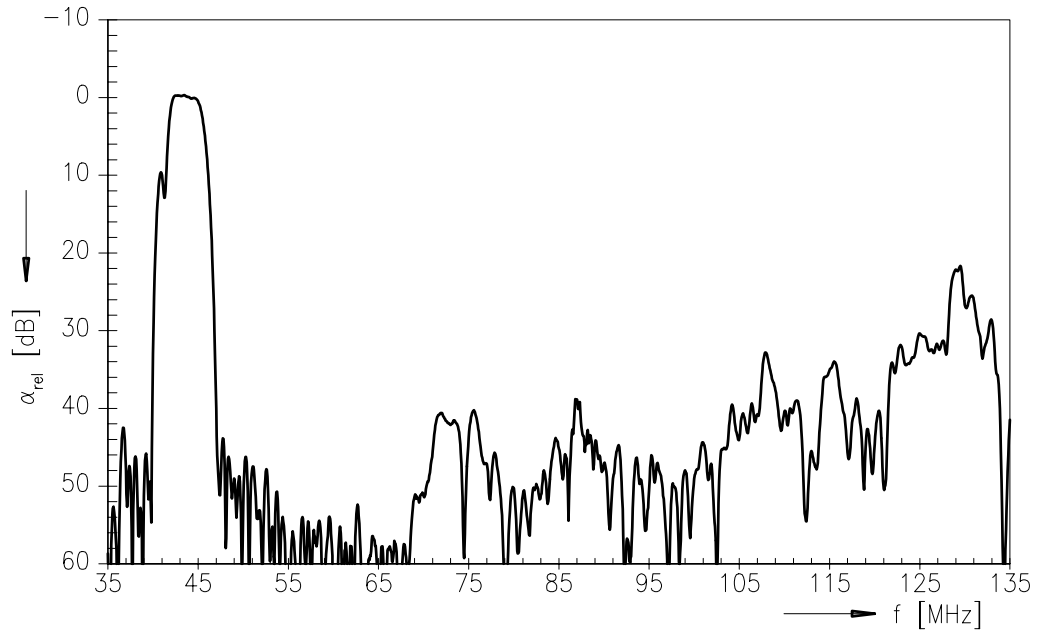
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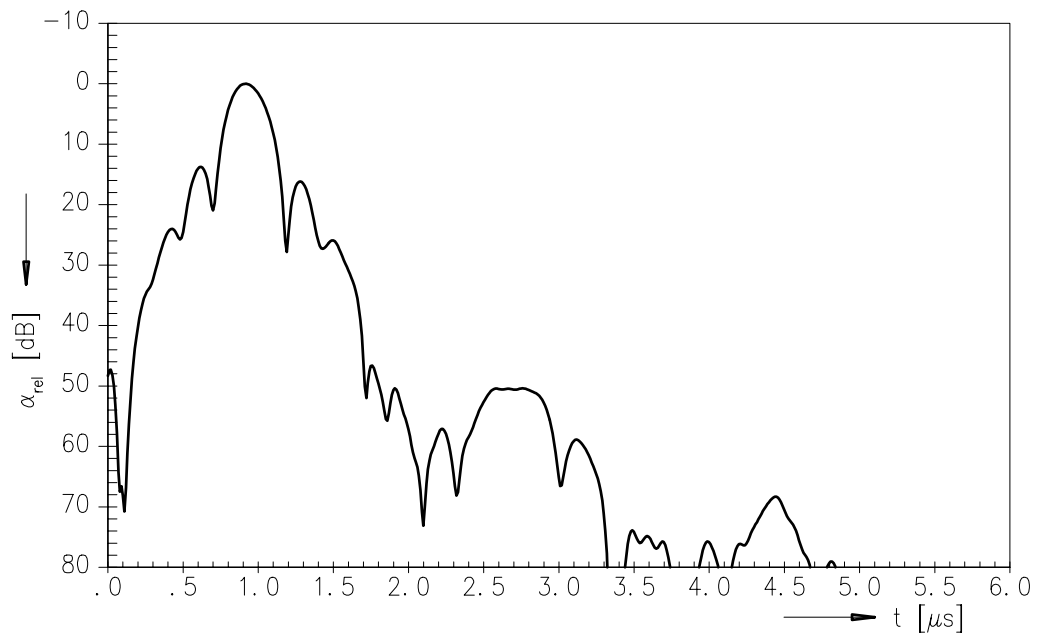
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Frequency response



Time domain response





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**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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