



# SAW Components

Data Sheet M 1867 D





**SAW Components**

**M 1867 D**

**IF Filter for Intercarrier Applications**

**45,75 MHz**

**Data Sheet**

**Standard**

Duroplast package **SIP5D**

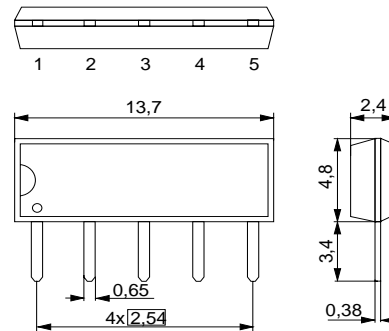
- M/N

**Features**

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

**Terminals**

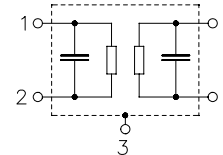
- Tinned CuFe alloy



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 1867 D	B39458-M1867-N201	C61157-A1-A21	F61074-V8049-Z000

**Maximum ratings**

Operating 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

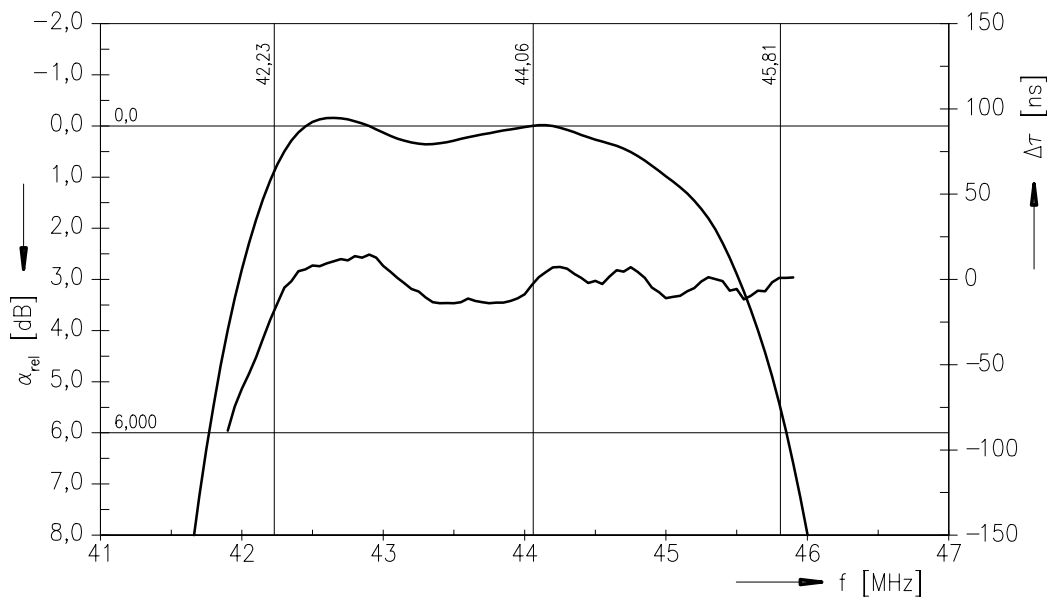
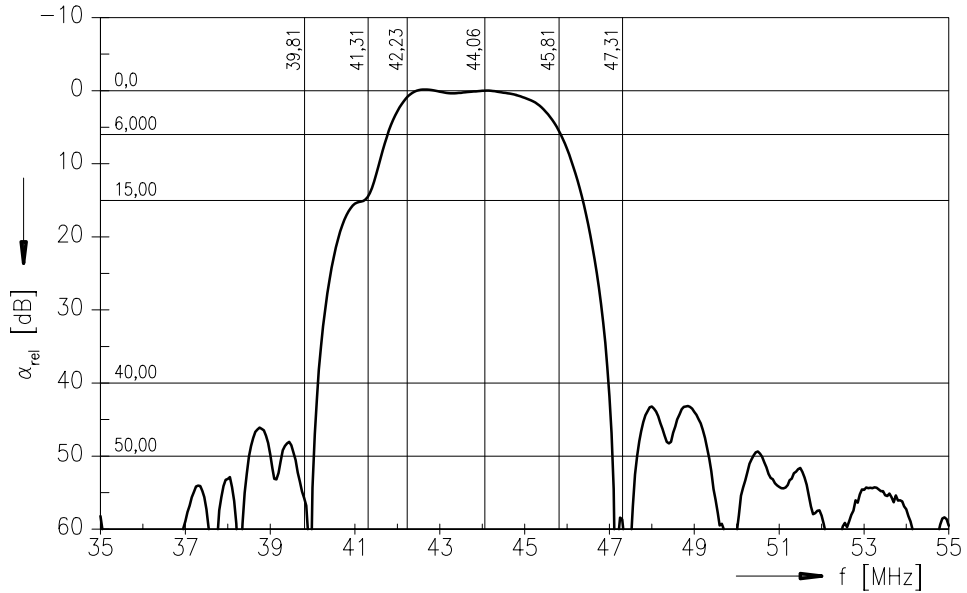
Reference temperature:  $T_A = 25 (45) \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
<b>Insertion attenuation</b>	$\alpha$				
Reference level for the following data	44,06 (44,00) MHz	11,2	12,7	14,2	dB
<b>Relative attenuation</b>	$\alpha_{rel}$				
Picture carrier	45,81 (45,75) MHz	4,4	5,4	6,4	dB
Color carrier	42,23 (42,17) MHz	0,0	1,0	2,0	dB
Sound carrier	41,31 (41,25) MHz	13,0	14,5	16,0	dB
Adjacent picture carrier	39,81 (39,75) MHz	48,0	56,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	48,0	55,0	—	dB
Lower sidelobe	35,06 ... 39,81 (35,00 ... 39,75) MHz	39,0	45,0	—	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 ... 6,0 $\mu\text{s}$ after main pulse (test pulse 250 ns, carrier frequency 44,06 MHz )		40,0	53,0	—	dB
<b>Feedthrough signal suppression</b>					
1,0 ... 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>	$\Delta\tau$	—	40	—	ns
<b>Impedance at 44,06 MHz</b>					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,7 $\parallel$ 10,3	—	k $\Omega$ $\parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,4 $\parallel$ 3,2	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	- 72	—	ppm/K



Data Sheet

Frequency response





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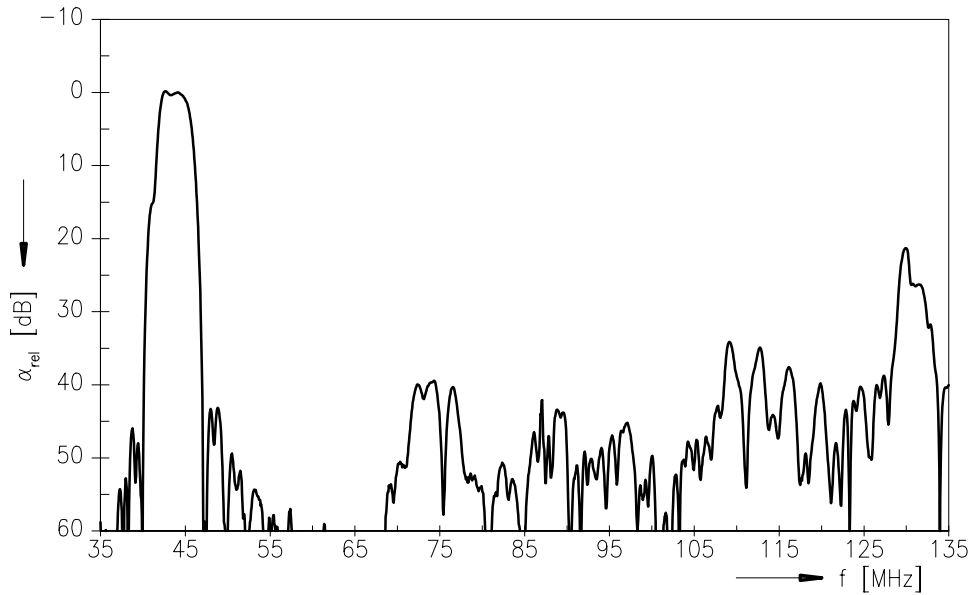
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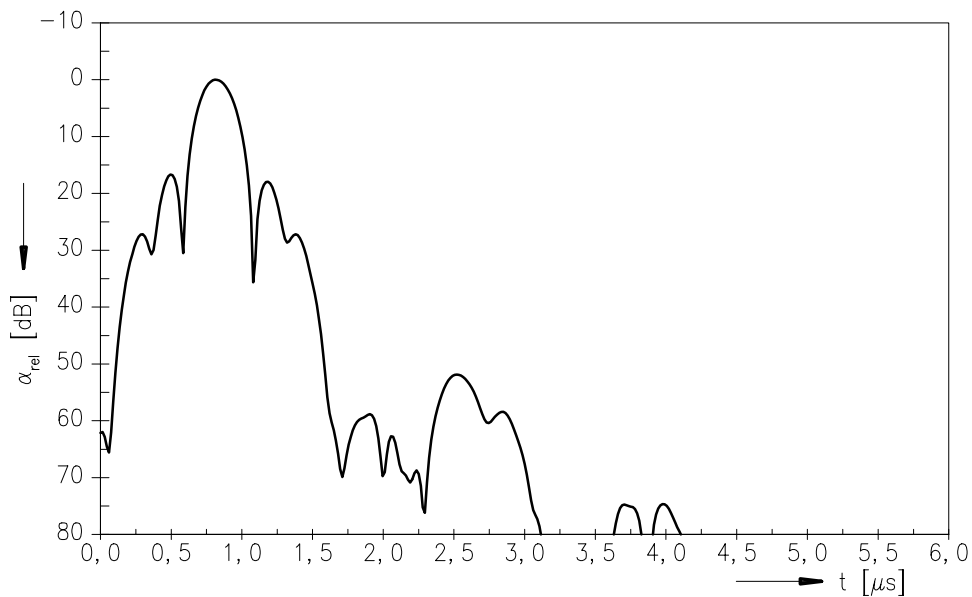
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Frequency response



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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