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# SAW Components

Data Sheet M 3951 M





<b>SAW Components</b>	<b>M 3951 M</b>
<b>IF Filter for Video Applications</b>	<b>45,75 MHz</b>

**Data Sheet**

**Standard**

- M/N

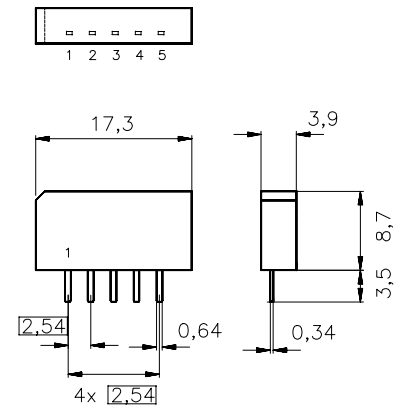
Plastic package **SIP5K**

**Features**

- TV IF filter with Nyquist slope and sound suppression
- Customized group delay predistortion
- Suitable for FCC EIA / IS-31

**Terminals**

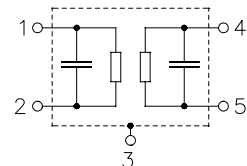
- Tinned CuFe alloy



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 3951 M	B39458-M3951-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:  $T_A = 25 (45) \text{ }^\circ\text{C}$   
 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	10,5	12,0	13,5	dB
<b>Relative attenuation</b>					
	$\alpha_{rel}$				
Picture carrier	45,81 (45,75) MHz	4,9	5,9	6,9	dB
Color carrier	42,23 (42,17) MHz	1,2	2,2	3,2	dB
Sound carrier	41,31 (41,25) MHz	25,0	32,0	—	dB
Adjacent picture carrier	39,81 (39,75) MHz	48,0	61,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	46,0	56,0	—	dB
Lower sidelobe					
	35,06 ... 39,81 (35,00 ... 39,75) MHz	38,0	42,0	—	dB
Upper sidelobe					
	47,31 ... 55,06 (47,25 ... 55,00) MHz	36,0	41,0	—	dB
<b>Reflected wave signal suppression</b>					
1,1 $\mu\text{s}$ ... 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>					
1,2 $\mu\text{s}$ ... 1,1 $\mu\text{s}$ before main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		50,0	56,0	—	dB
<b>Group delay predistortion</b>					
(reference frequency: 45,81 MHz)					
	$\Delta\tau$				
	42,81 (42,75) MHz	—	-10	—	ns
	42,23 (42,17) MHz	—	-40	—	ns
<b>Group delay ripple (p-p)</b>					
	$\Delta\tau$	—	40	—	ns
<b>Impedance at 44,06 MHz</b>					
Input:	$Z_{IN} = R_{IN} \parallel C_{IN}$	—	1,4 $\parallel$ 10,8	—	k $\Omega$ $\parallel$ pF
Output:	$Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	0,9 $\parallel$ 4,4	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>					
	$TC_f$	—	-72	—	ppm/K



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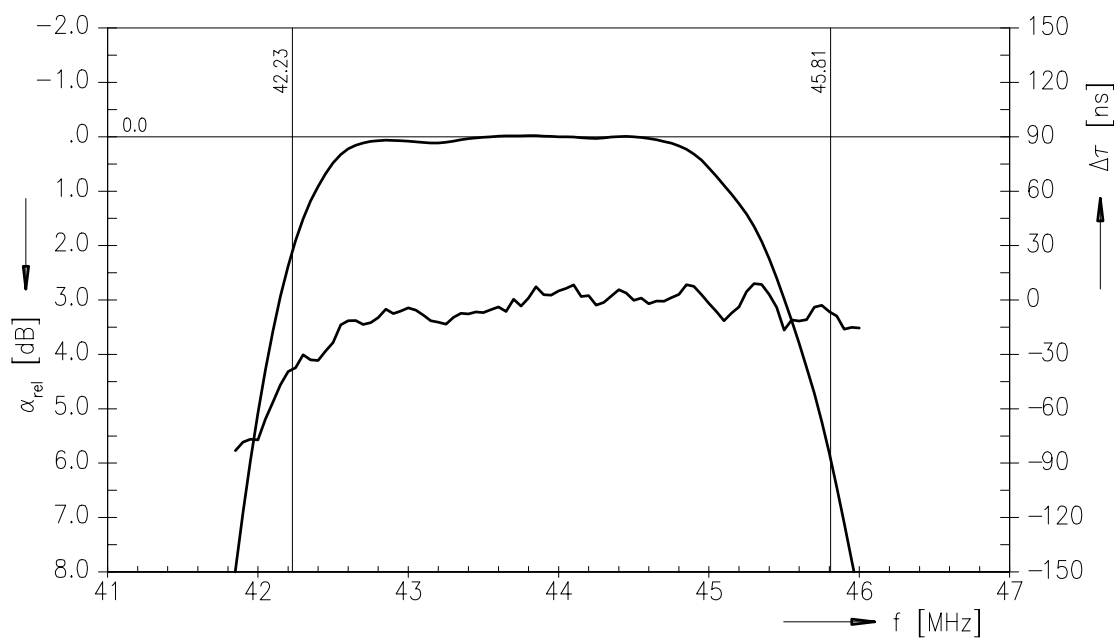
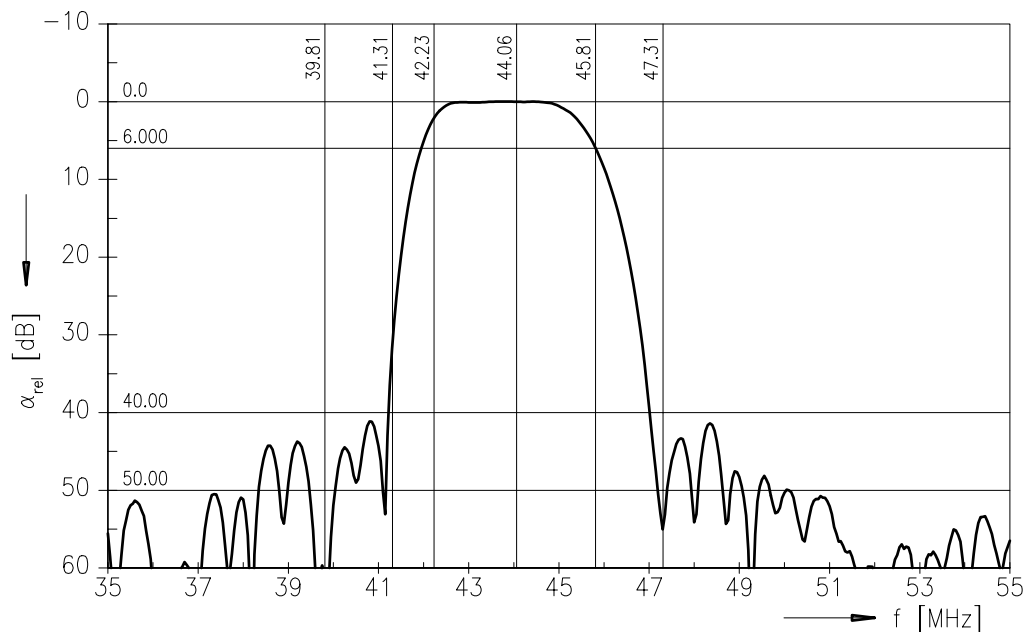
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45,75 MHz

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Frequency response





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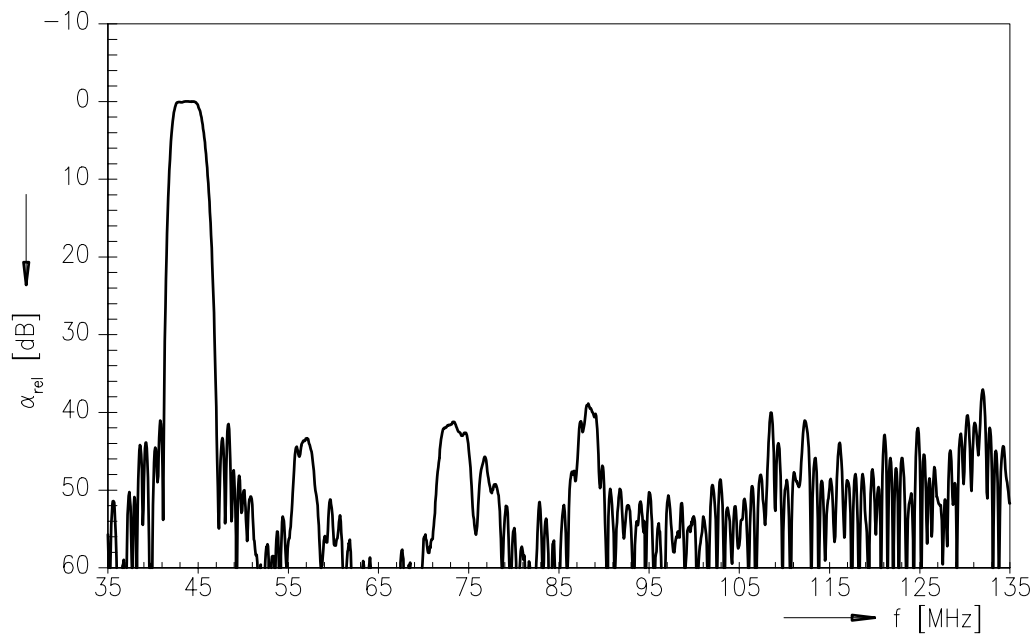
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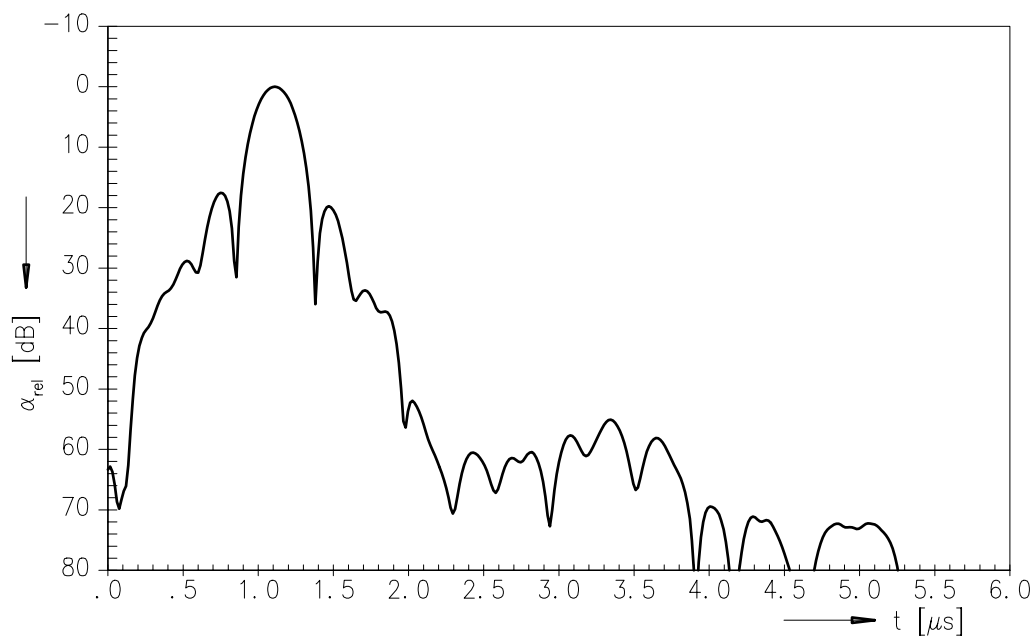
45,75 MHz

Data Sheet

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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