



# SAW Components

Data Sheet X 6892 D





**SAW Components**

**X 6892 D**

**Bandpass Filter**

**44,00 MHz**

Data Sheet Sheet

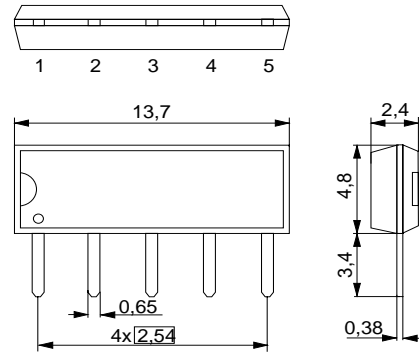
Duroplast package **SIP5D**

**Features**

- IF filter for digital terrestrial TV, ATSC
- Standard IC package

**Terminals**

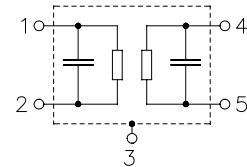
- Tinned CuFe alloy



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
X 6892 D	B39440-X6892-N201	C61157-A1-A21	F61074-V8049-Z000

**Maximum ratings**

Operable temperature range	$T_A$	- 25/+ 80	°C	
Storage temperature range	$T_{stg}$	- 40/+ 85	°C	
DC voltage	$V_{DC}$	0	V	between any terminals
AC voltage	$V_{pp}$	10	V	between any terminals


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**Characteristics**

Reference temperature:

$T_A = 25 (50) \text{ }^\circ\text{C}$

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>Center frequency</b> (center between 10 dB points)	$f_C$	—	(44,00)	—	MHz
<b>Insertion attenuation</b> Reference level for the following data	$\alpha$	12,5	14,0	15,5	dB
					44,08 (44,00) MHz
<b>Pass bandwidth</b> $\alpha_{\text{rel}} \leq 3 \text{ dB}$	$B_{3\text{dB}}$	—	5,6	—	MHz
$\alpha_{\text{rel}} \leq 30 \text{ dB}$	$B_{30\text{dB}}$	—	7,3	—	MHz
<b>Amplitude ripple</b> 41,75 ... 46,41 (41,67 ... 46,33 ) MHz	$\Delta\alpha$	—	0,6	—	dB
<b>Relative attenuation</b> Lower sidelobe	$\alpha_{\text{rel}}$				
		42,0	48,0	—	dB
35,08 ... 38,08 (35,00 ... 38,00) MHz		38,0	45,0	—	dB
38,08 ... 40,13 (38,00 ... 40,05) MHz					
Upper sidelobe		37,0	45,0	—	dB
48,03 ... 50,33 (47,95 ... 50,25) MHz		41,0	50,0	—	dB
50,33 ... 55,08 (50,25 ... 55,00) MHz					
<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 44,08 MHz)		42,0	52,0	—	dB
<b>Feedthrough signal suppression</b> 1,3 $\mu\text{s}$ ... 1,2 $\mu\text{s}$ before main pulse (test pulse 250 ns, carrier frequency 44,08 MHz)		50,0	56,0	—	dB
<b>Group delay ripple</b> (p-p) 41,75 ... 46,41 (41,67 ... 46,33) MHz	$\Delta\tau$	—	40	—	ns
<b>Impedance</b> at 44,08 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1,5    15,4	—	k $\Omega$    pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	1,3    4,6	—	k $\Omega$    pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K



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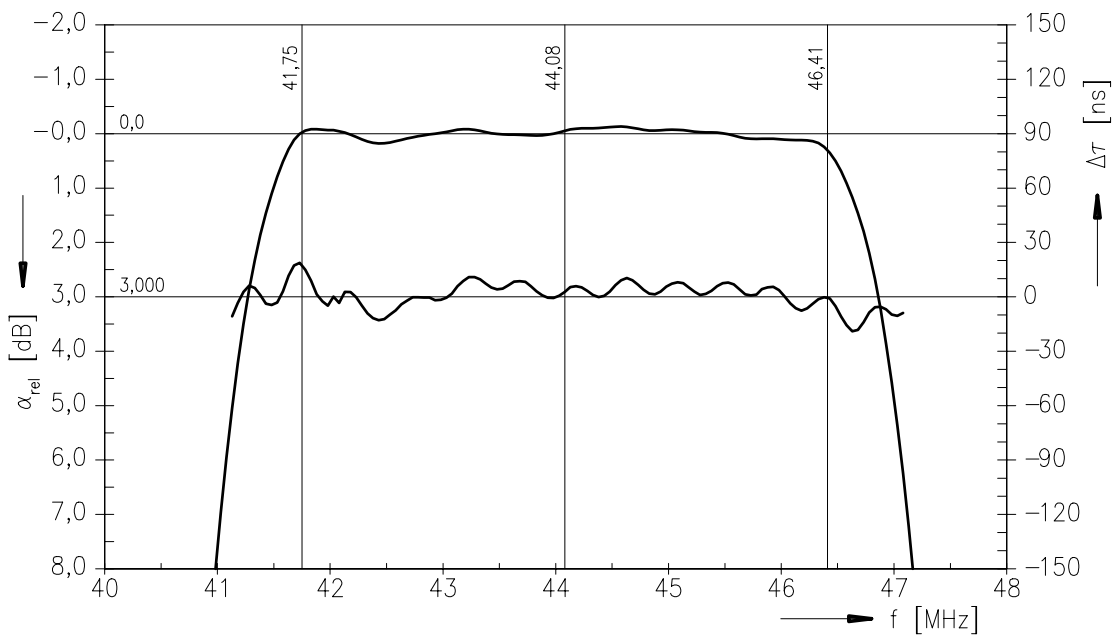
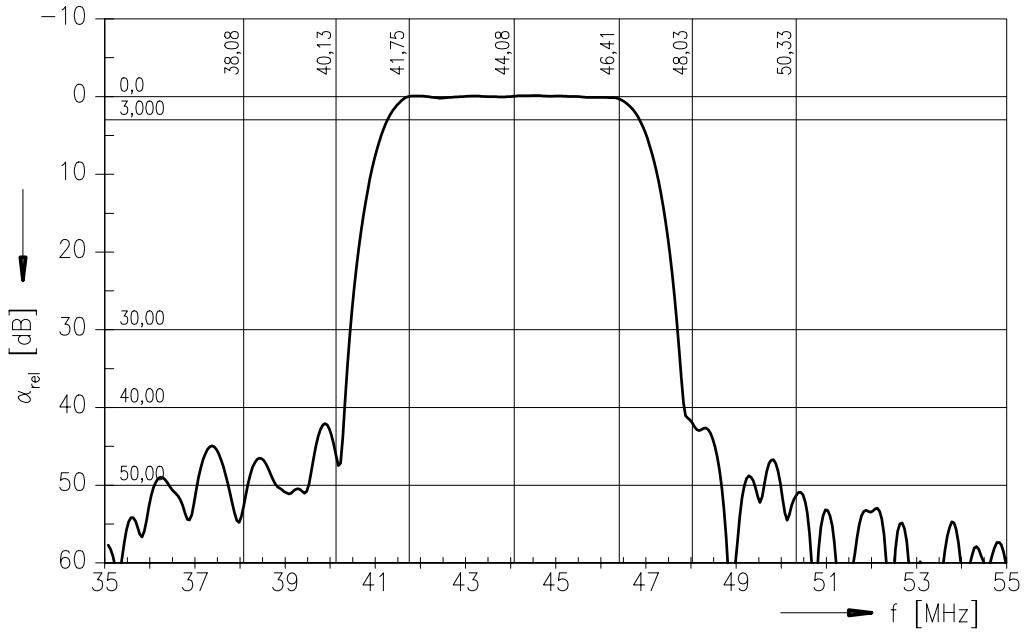
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Frequency response





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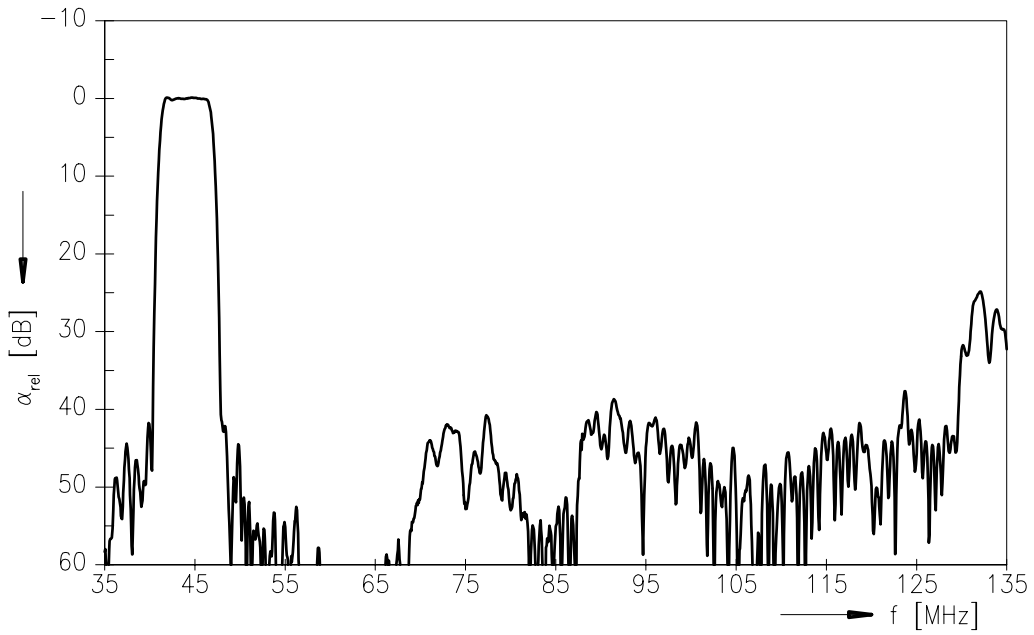
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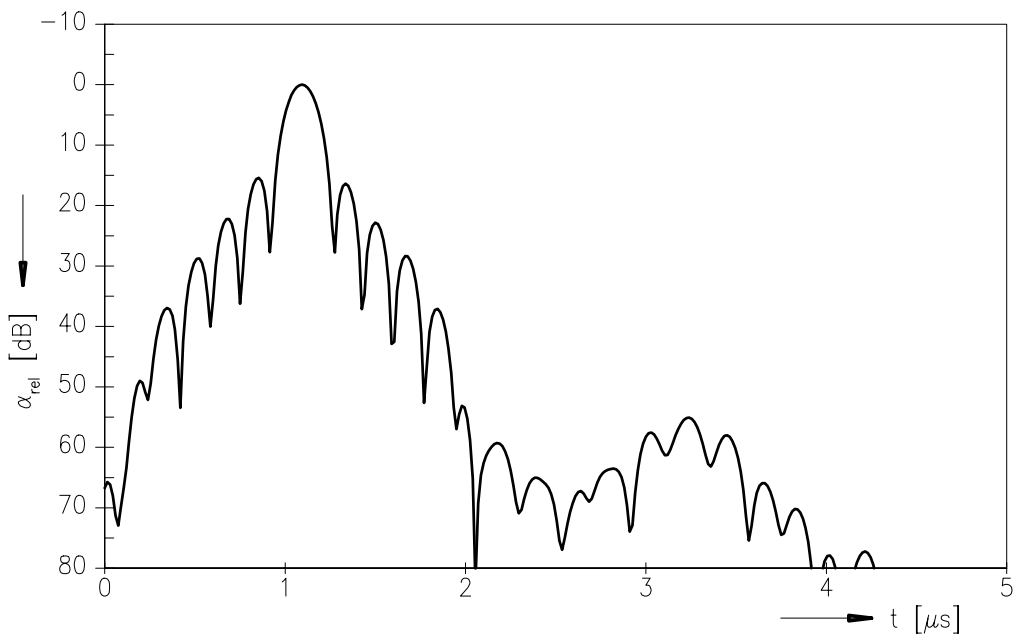
44,00 MHz

Data Sheet

Frequency response



Time domain response





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

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