



SAW Components

Data Sheet X 6922 D

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid pattern, overlaid with a large, stylized, and slightly blurred "EPCOS" logo. The logo is rendered in a light gray, almost white, color, giving it a three-dimensional appearance as if it's floating or attached to the globe. The background is dark and textured, with some light streaks and a sense of motion or depth.

EPCOS



SAW Components

X 6922 D

Bandpass Filter

38,912 MHz

Data Sheet

Duroplast package **SIP5D**

Standard

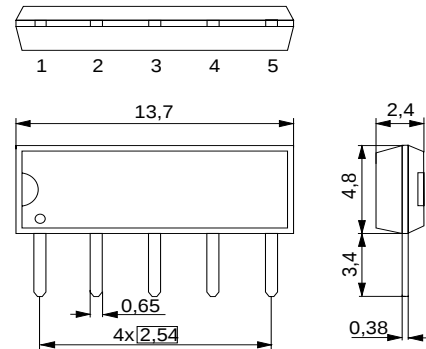
- DAB

Features

- IF filter for Digital Audio Broadcasting
- Constant group delay
- Standard IC package

Terminals

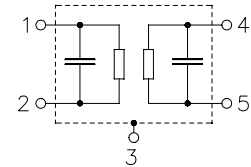
- Tinned CuFe alloy



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
X 6922 D	B39389-X6922-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:	$T_A = 25 (45) ^\circ \text{C}$
Terminating source impedance:	$Z_S = 50 \Omega$
Terminating load impedance:	$Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
Center frequency (center between 10 dB points)	f_c	(38,874)	(38,912)	(38,950)	MHz
Insertion attenuation Reference level for the following data	α				
38,922 (38,912) MHz		17,2	18,7	20,2	dB
Pass bandwidth $\alpha_{\text{rel}} \leq 3 \text{ dB}$ $\alpha_{\text{rel}} \leq 30 \text{ dB}$	$B_{3\text{dB}}$ $B_{30\text{dB}}$	—	1,5 2,7	—	MHz MHz
Relative attenuation 36,27 ... 37,31 (36,26 ... 37,30) MHz 40,61 ... 41,41 (40,60 ... 41,40) MHz Lower sidelobe (incl. second adjacent channel) 30,01 ... 36,27 (30,00 ... 36,26) MHz Upper sidelobe (incl. second adjacent channel) 41,41 ... 50,01 (41,40 ... 50,00) MHz	α_{rel}	38,0 38,0 43,0 42,0	41,0 44,0 50,0 47,0	— — — —	dB dB dB dB
Reflected wave signal suppression 1,6 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 38,922 MHz)		42,0	52,0	—	dB
Group delay ripple (p-p) 38,12 ... 39,72 (38,11 ... 39,71) MHz	$\Delta\tau$	—	35	—	ns
Impedance at 38,922 MHz Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$ Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		— —	1,0 $\parallel$ 25,3 0,9 $\parallel$ 15,0	— —	k Ω $\parallel$ pF k Ω $\parallel$ pF
Temperature coefficient of frequency	TC_f	—	-18	—	ppm/K



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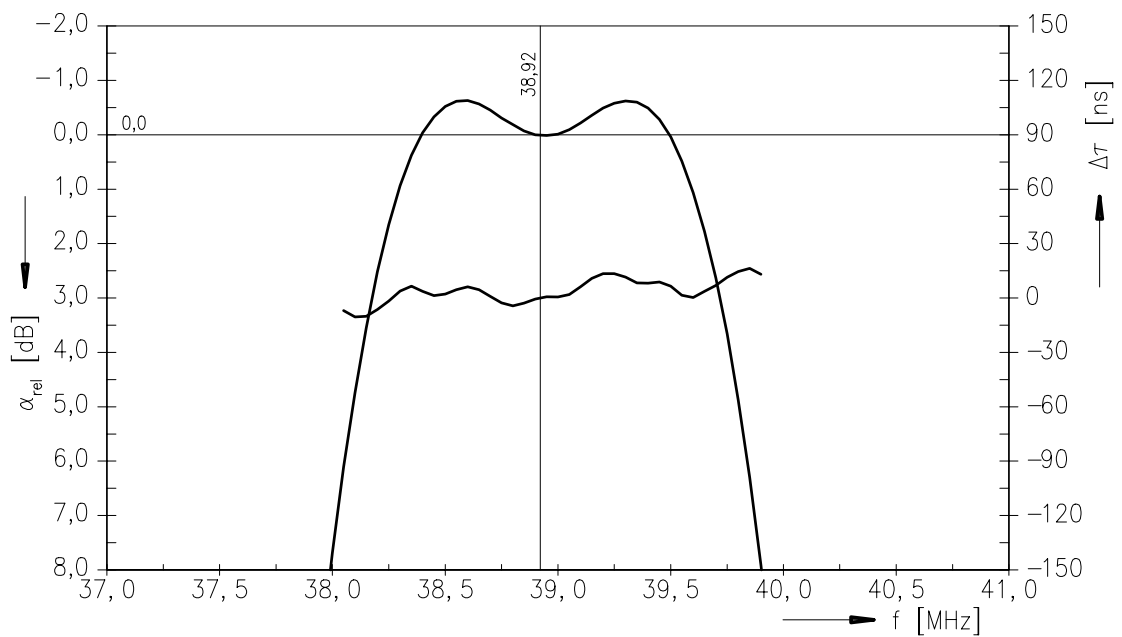
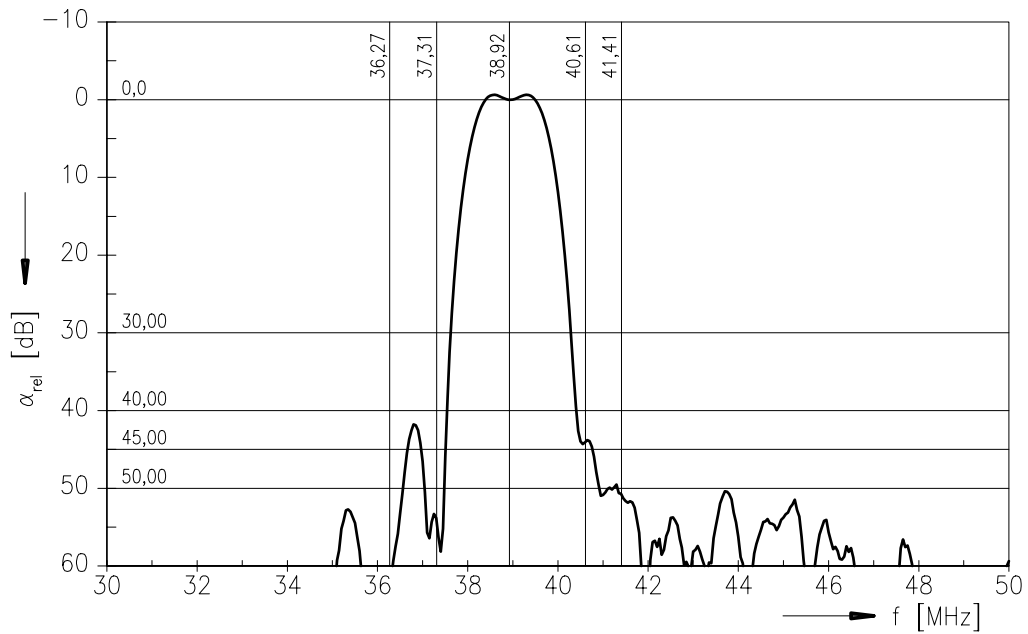
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Frequency response





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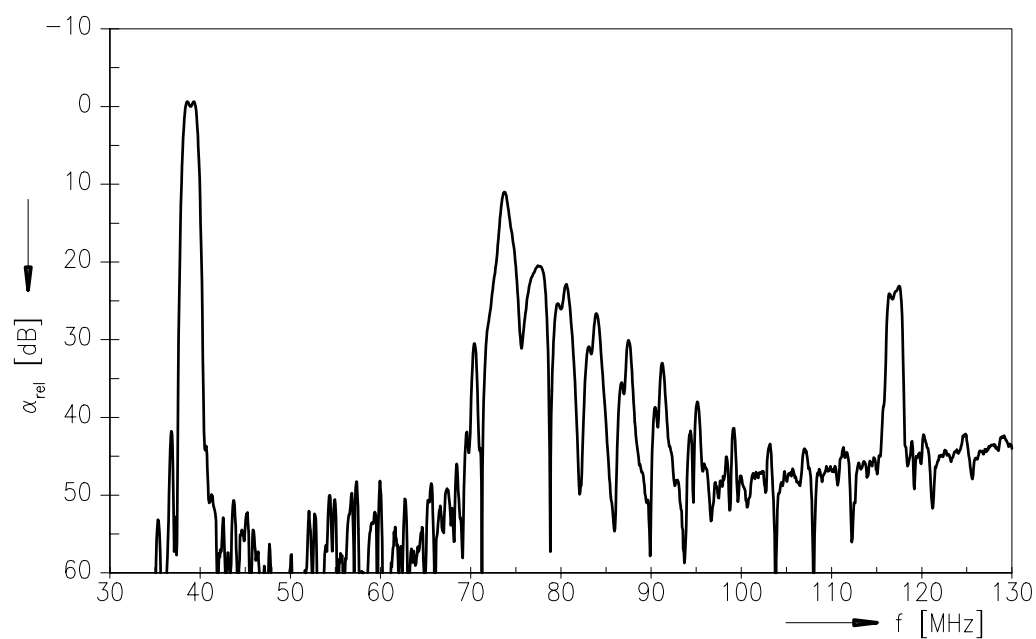
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Bandpass Filter

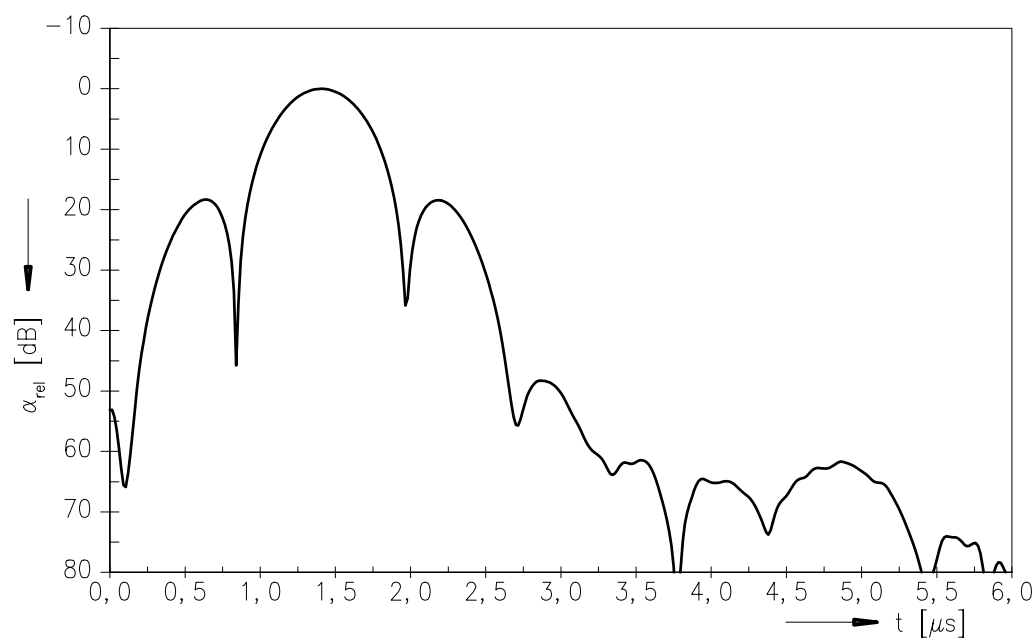
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Frequency response



Time domain response





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