



SAW Components

Data Sheet X 6922 D

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are set against a dark, textured background. In the background, there is a faint, stylized globe and some circuitry patterns, suggesting a global and technological theme.



SAW Components

X 6922 D

Bandpass Filter

38,912 MHz

Data Sheet

Duroplast package **SIP5D**

Standard

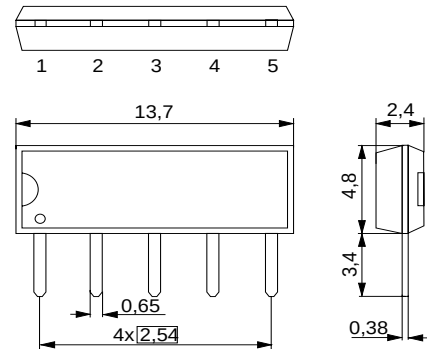
- DAB

Features

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

Terminals

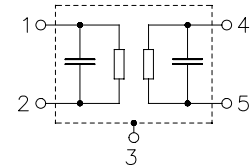
- Tinned CuFe alloy



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



SAW Components	X 6922 D
Bandpass Filter	38,912 MHz

Data Sheet

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



SAW Components

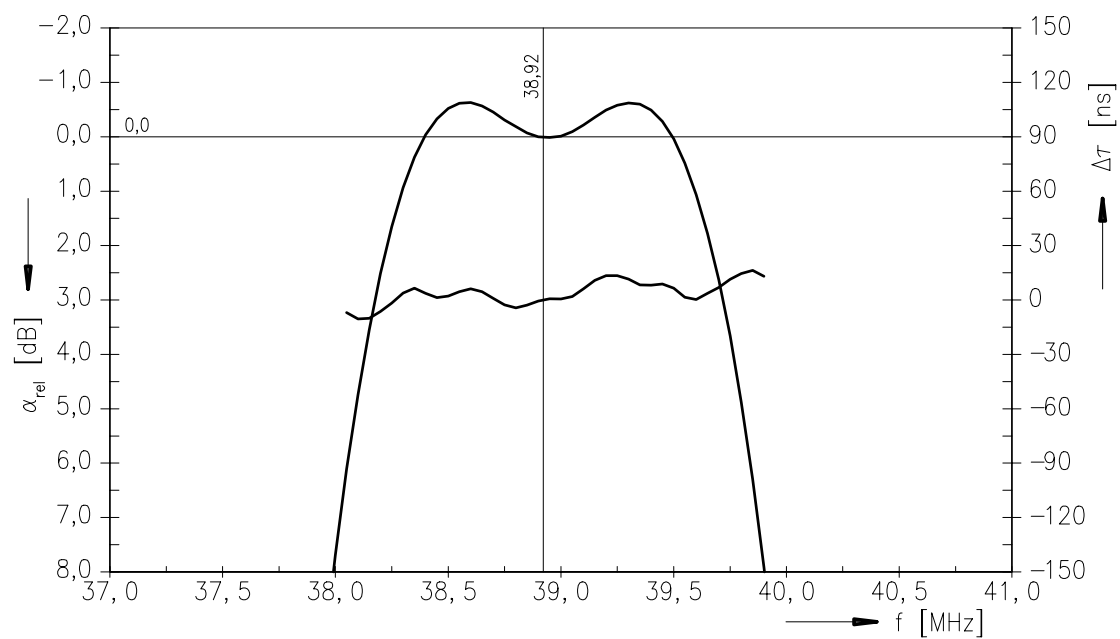
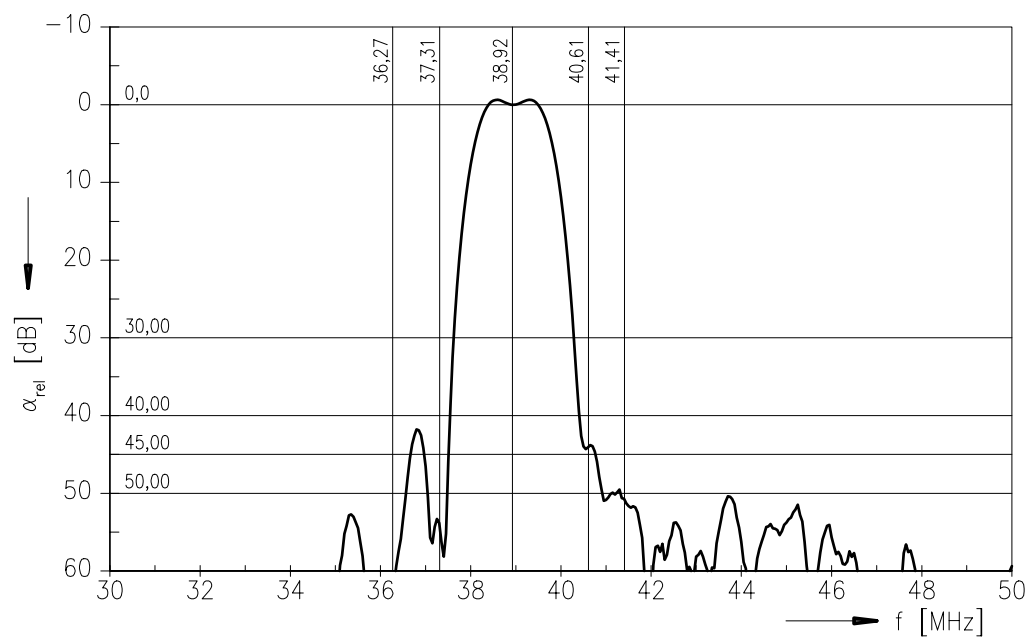
X 6922 D

Bandpass Filter

38,912 MHz

Data Sheet

Frequency response





SAW Components

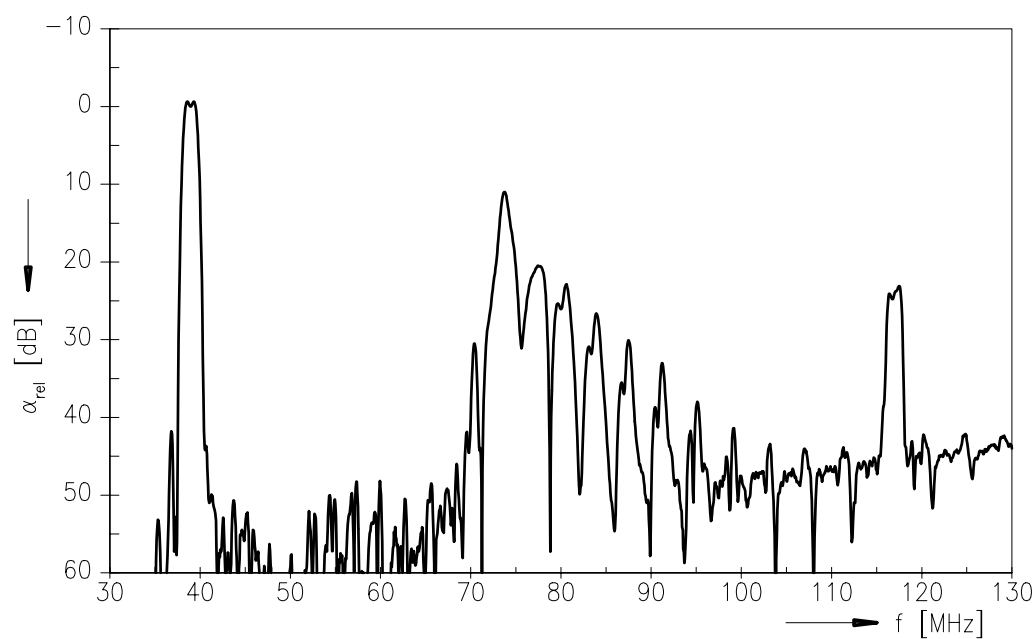
X 6922 D

Bandpass Filter

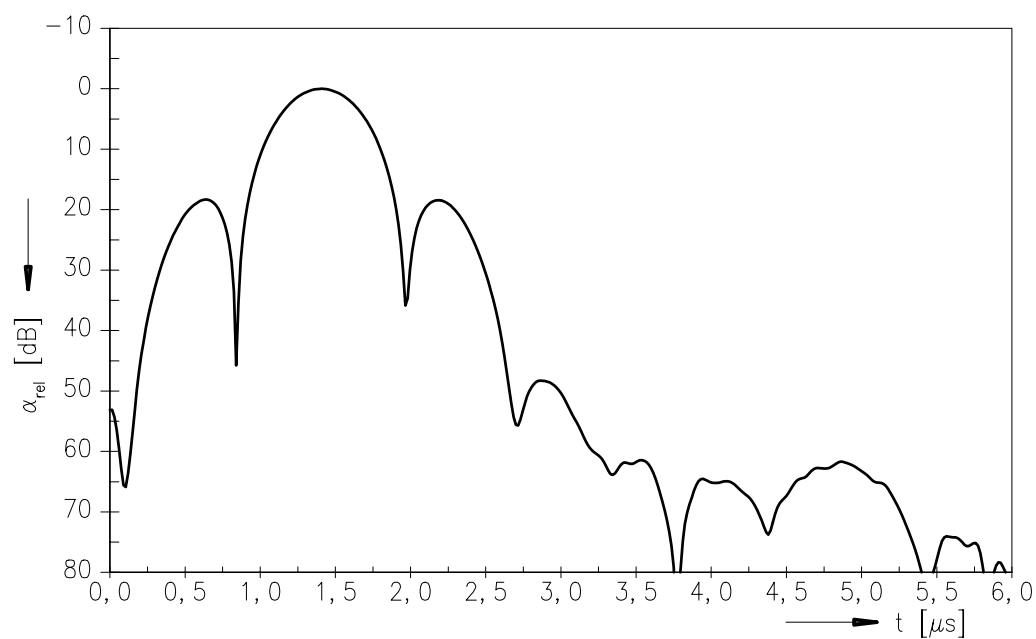
38,912 MHz

Data Sheet

Frequency response



Time domain response





SAW Components	X 6922 D
Bandpass Filter	38,912 MHz

Data Sheet

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

© EPCOS AG 2004. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.