EPCOS

SAW Components

Data Sheet X 6922 D

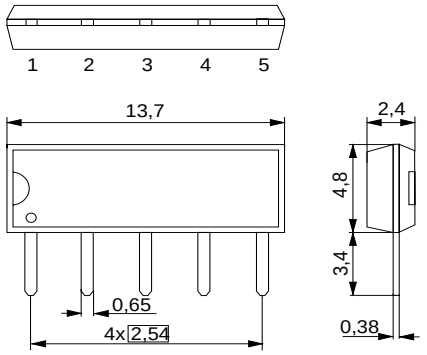
Duroplast package **SIP5D**

Standard

- DAB

Features

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



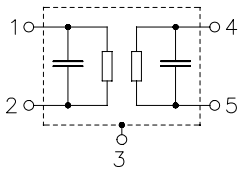
Terminals

- 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

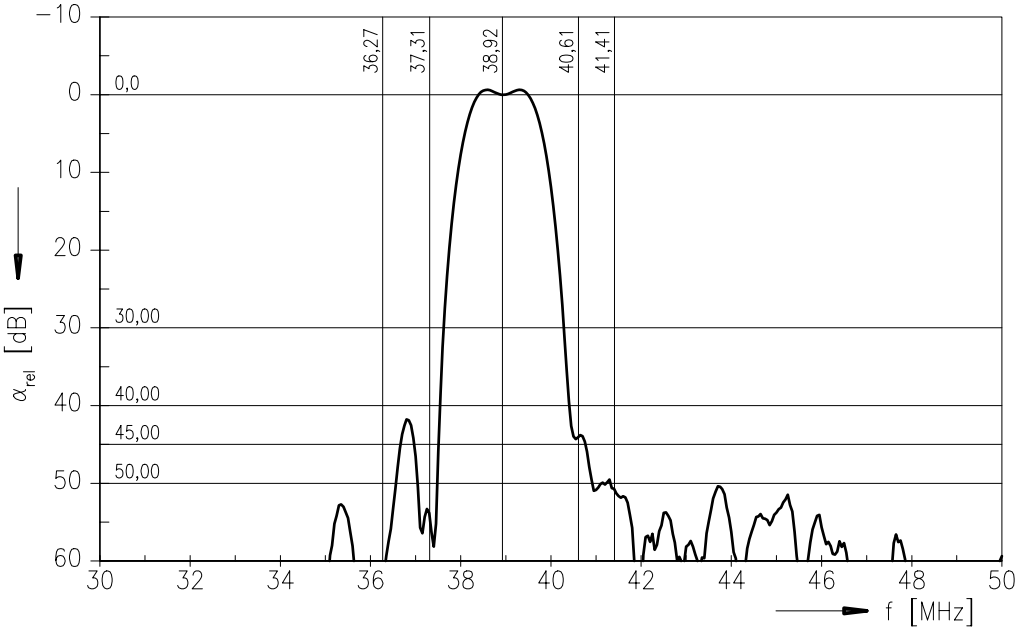
Operable temperature range	T_A	–25/+65	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

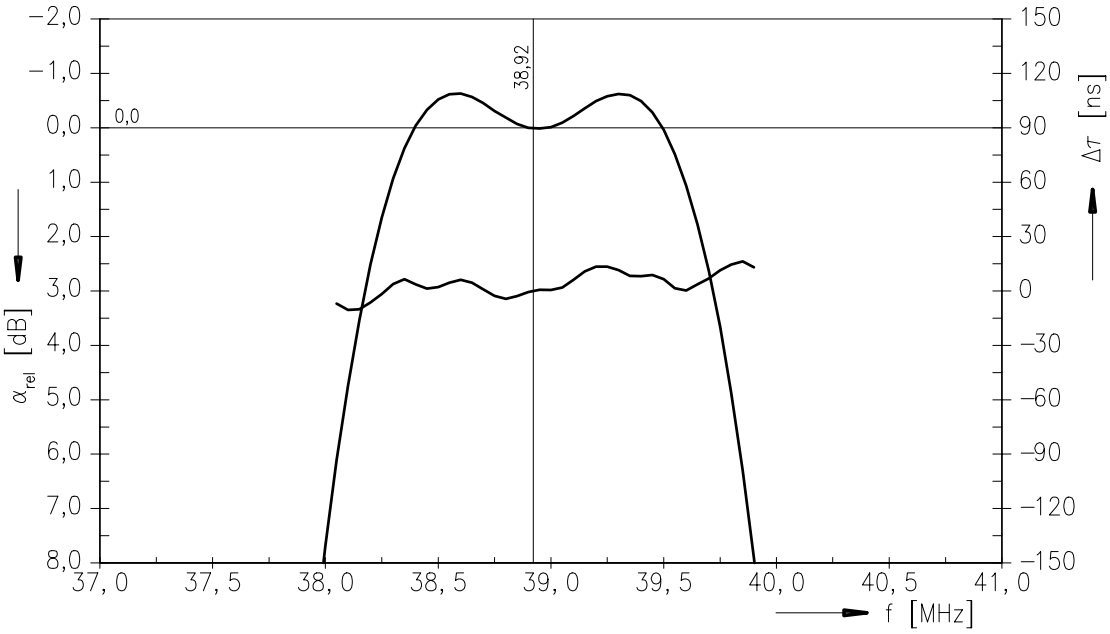
Characteristics

Reference temperature: T_A = 25 (45) ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2 kΩ || 3 pF

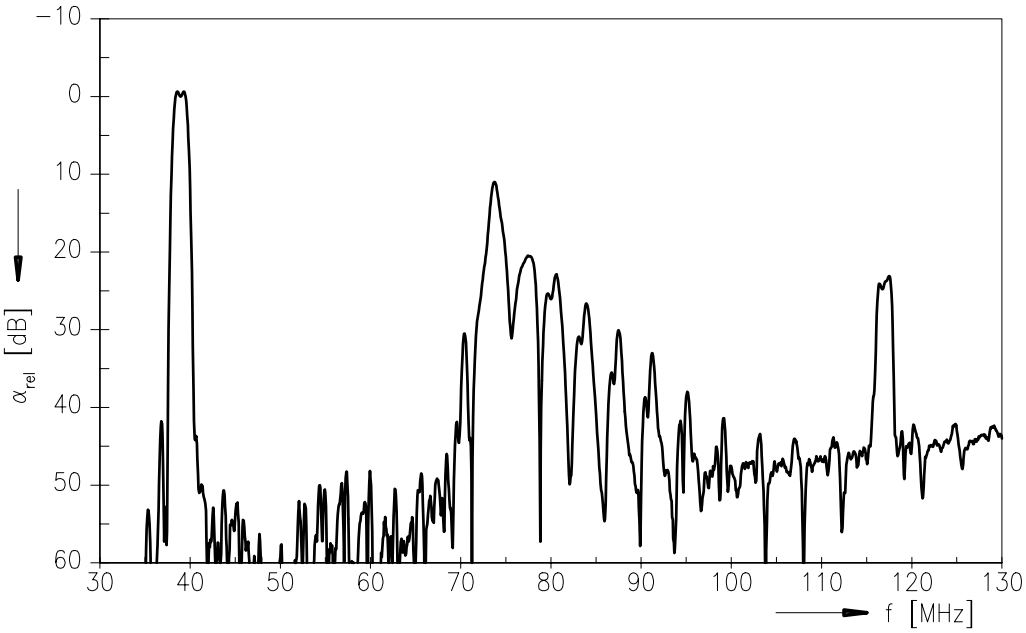
		min.	typ.	max.	
Center frequency (center between 10 dB points)	f_c	(38,874)	(38,912)	(38,950)	MHz
Insertion attenuation	α				
Reference level for the following data 38,922 (38,912) MHz		17,2	18,7	20,2	dB
Pass bandwidth					
$\alpha_{rel} \leq 3$ dB	B_{3dB}	—	1,5	—	MHz
$\alpha_{rel} \leq 30$ dB	B_{30dB}	—	2,7	—	MHz
Relative attenuation	α_{rel}				
36,27 ... 37,31 (36,26 ... 37,30) MHz		38,0	41,0	—	dB
40,61 ... 41,41 (40,60 ... 41,40) MHz		38,0	44,0	—	dB
Lower sidelobe (incl. second adjacent channel)					
30,01 ... 36,27 (30,00 ... 36,26) MHz		43,0	50,0	—	dB
Upper sidelobe (incl. second adjacent channel)					
41,41 ... 50,01 (41,40 ... 50,00) MHz		42,0	47,0	—	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)	Δτ				
38,12 ... 39,72 (38,11 ... 39,71) MHz		—	35	—	ns
Impedance at 38,922 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,0 ‖25,3	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	0,9 ‖15,0	—	kΩ || pF
Temperature coefficient of frequency	TC_f	—	–18	—	ppm/K

Frequency response

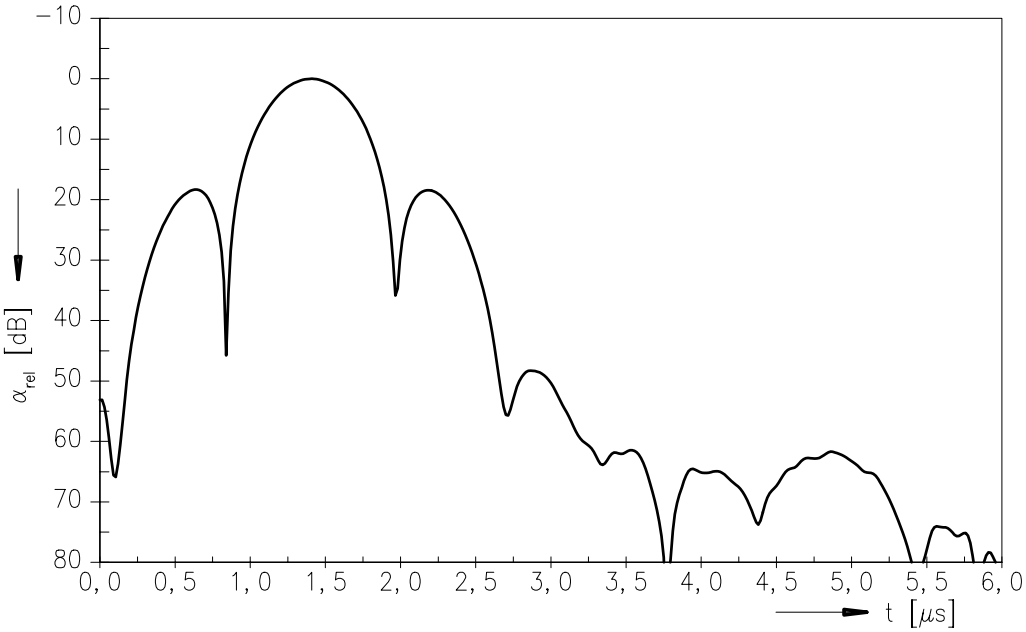




Frequency response



Time domain response



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