



SAW Components

Data Sheet J 3961 D

Data Sheet

SAW Components
J 3961 D
IF Filter for Video Applications
39,50 MHz
Data Sheet
Standard
Duroplast package SIP5D

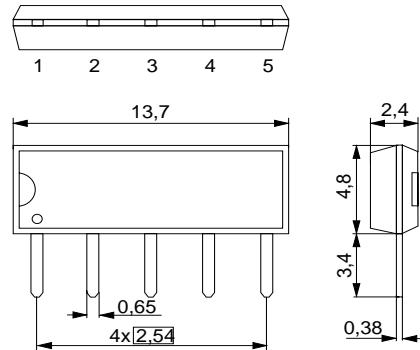
■ I

Features

- TV IF filter with Nyquist slope and sound suppression
- Customized group delay predistortion
- Standard IC package

Terminals

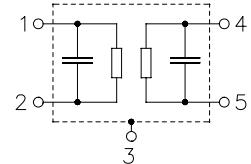
- Tinned CuFe alloy



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
J 3961 D	B39395-J3961-N201	C61157-A1-A21	F61074-V8049-Z000

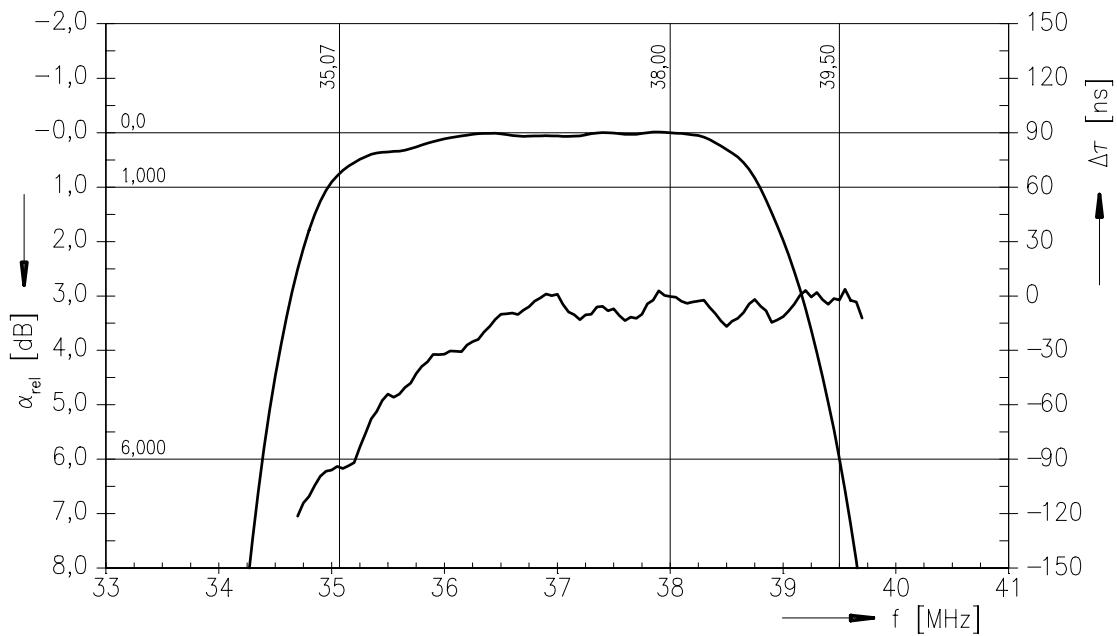
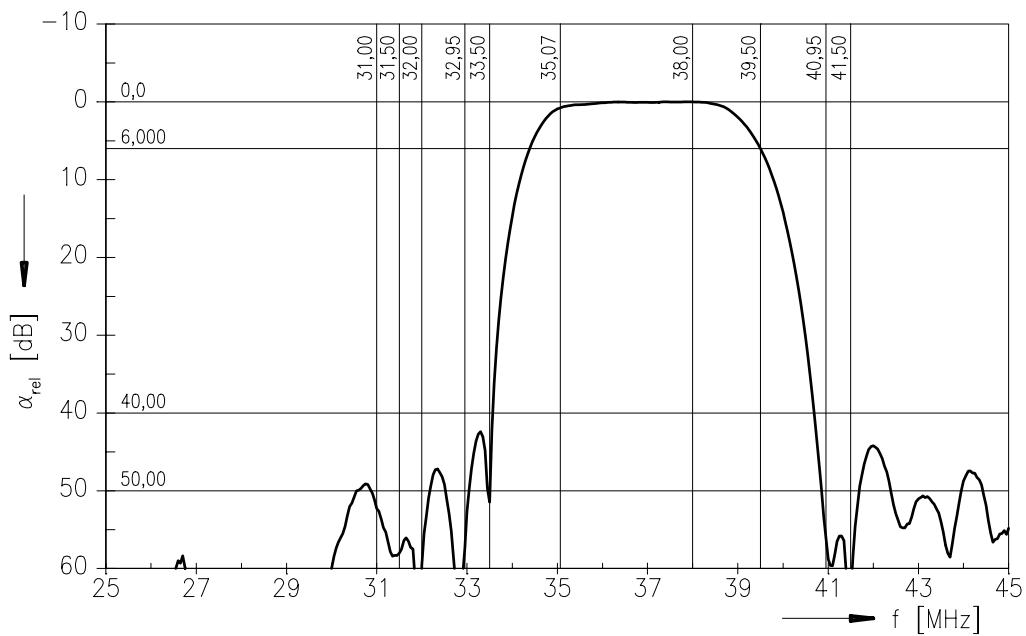
Maximum ratings

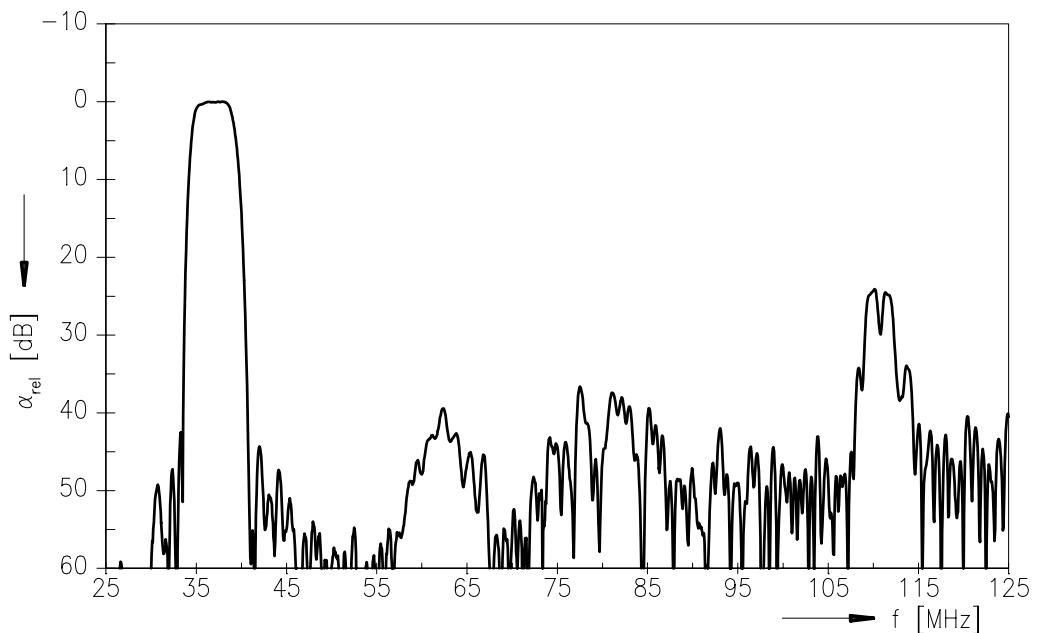
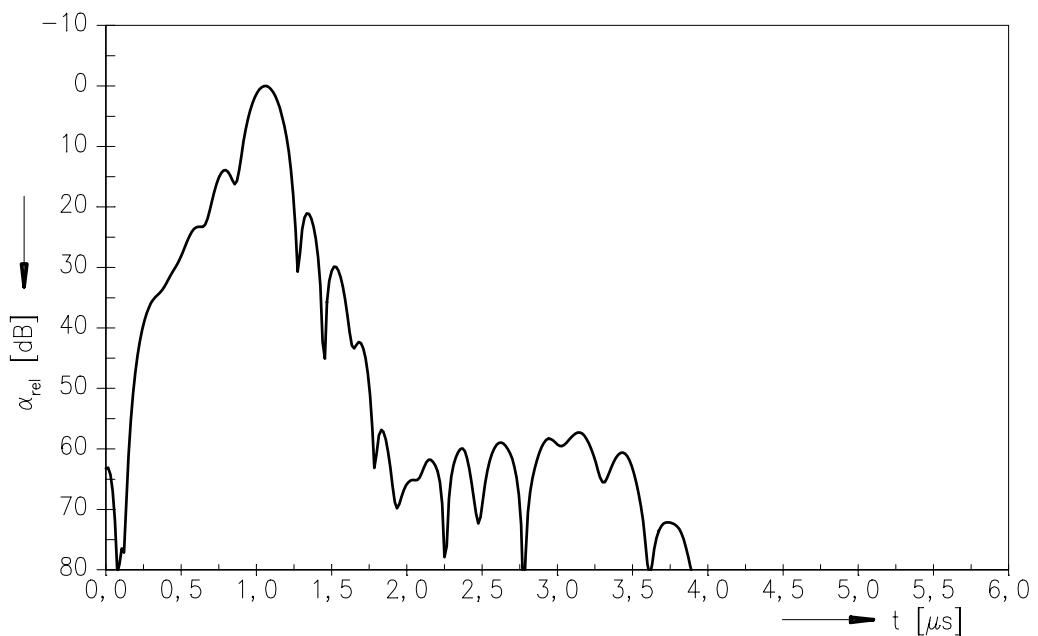
Operable temperature range	T_A	-25/+65	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

**SAW Components****J 3961 D****IF Filter for Video Applications****39,50 MHz****Data Sheet****Characteristics**

Reference temperature: $T_A = 25^\circ\text{C}$
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
Insertion attenuation	α				
Reference level for the following data	38,00 MHz	12,0	13,5	15,0	dB
Relative attenuation	α_{rel}				
Picture carrier	39,50 MHz	5,0	6,0	7,0	dB
Color carrier	35,07 MHz	-0,2	0,8	1,8	dB
Sound carrier	33,50 MHz	39,0	48,0	—	dB
	32,95 MHz	46,0	55,0	—	dB
Adjacent picture carrier	31,50 MHz	45,0	57,0	—	dB
	31,00 MHz	45,0	52,0	—	dB
	32,00 MHz	46,0	55,0	—	dB
Adjacent sound carrier	41,50 MHz	44,0	55,0	—	dB
	40,95 MHz	44,0	54,0	—	dB
Lower sidelobe	25,00 ... 31,50 MHz	42,0	50,0	—	dB
Upper sidelobe	41,50 ... 45,00 MHz	39,0	45,0	—	dB
Reflected wave signal suppression					
1,3 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 38,00 MHz)		42,0	54,0	—	dB
Feedthrough signal suppression					
1,3 μs ... 1,2 μs before main pulse (test pulse 250 ns, carrier frequency 38,00 MHz)		50,0	56,0	—	dB
Group delay predistortion	$\Delta\tau$				
(reference frequency 39,50 MHz)					
	36,50 MHz	—	-10	—	ns
	35,07 MHz	—	-95	—	ns
Impedance at 38,00 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1,4 17,1	—	$\text{k}\Omega \parallel \text{pF}$
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	1,7 4,5	—	$\text{k}\Omega \parallel \text{pF}$
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K

Data Sheet
Frequency response


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Frequency response

Time domain response




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