



SAW Components

Data Sheet K 7262 D





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K 7262 D

IF Filter for Video / Multistandard Applications

38,00 MHz

Data Sheet

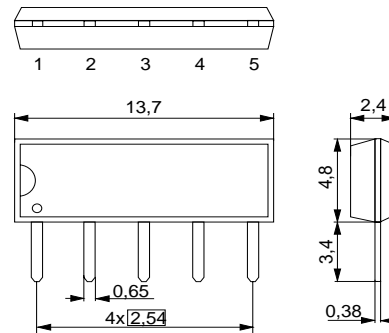
Standard

- B/G
- D/K
- M/N

Duroplast package SIP5D

Features

- TV IF filter switchable from M/N mode to B/G, D/K mode
- M/N mode with Nyquist slope and sound suppression
- Customized group delay predistortion
- B/G, D/K mode with Nyquist slope and sound suppression
- Reduced group delay predistortion as compared with standard B/G, half
- Standard IC package



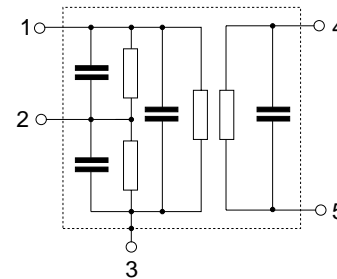
Dimensions in mm, approx. weight 0,5 g

Terminals

- Tinned CuFe alloy

Pin configuration

- 1 Input
- 2 Switching input
- 3 Chip carrier - ground
- 4 Output
- 5 Output



Type	Ordering code	Marking and package according to	Packing according to
K 7262 D	B39380-K7262-N201	C61157-A1-A21	F61074-V8049-Z00

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 in B/G, D/K mode (switching pin 2 connected to ground)

Reference temperature: $T_A = 25\text{ }^\circ\text{C}$
 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	36,50 MHz	14,4	15,9	17,4	dB
Relative attenuation					
	α_{rel}				
Picture carrier	38,00 MHz	4,7	5,7	6,7	dB
Color carrier	33,57 MHz	0,8	1,8	2,8	dB
Sound carrier	32,50 MHz	35,0	44,0	—	dB
	32,55 MHz	—	40,0	—	dB
	32,00 MHz	35,0	41,0	—	dB
	31,50 MHz	45,0	53,0	—	dB
Adjacent picture carrier	30,00 MHz	44,0	53,0	—	dB
	31,00 MHz	43,0	49,0	—	dB
Adjacent sound carrier	39,50 MHz	44,0	53,0	—	dB
	40,00 MHz	44,0	56,0	—	dB
	40,50 MHz	—	48,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz	44,0	52,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz	39,0	44,0	—	dB
Reflected wave signal suppression					
1,2 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		42,0	52,0	—	dB
Feedthrough signal suppression					
1,2 μs ... 1,1 μs before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		—	56,0	—	dB
Group delay predistortion					
(reference frequency 38,00 MHz)					
	$\Delta\tau$				
	36,00 MHz	—	-50	—	ns
	33,57 MHz	—	70	—	ns
Impedance at 36,50 MHz					
	Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$	—	1,2 \parallel 18,6	—	$\text{k}\Omega \parallel \text{pF}$
	Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$	—	1,7 \parallel 4,7	—	$\text{k}\Omega \parallel \text{pF}$
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



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Characteristics in M/N mode (switching pin 2 connected to pin 1)

Reference temperature: $T_A = 25\text{ °C}$
 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	36,50 MHz	14,5	16,0	17,5	dB
Relative attenuation					
	α_{rel}				
Picture carrier	38,00 MHz	4,8	5,8	6,8	dB
Color carrier	34,42 MHz	0,9	1,9	2,9	dB
Sound carrier	33,50 MHz	30,0	47,0	—	dB
Adjacent picture carrier	32,00 MHz	47,0	60,0	—	dB
Adjacent sound carrier	39,50 MHz	43,0	51,0	—	dB
Lower sidelobe	25,00 ... 32,00 MHz	41,0	48,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz	37,0	43,0	—	dB
Reflected wave signal suppression					
1,3 μ s ... 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		42,0	52,0	—	dB
Feedthrough signal suppression					
1,2 μ s ... 1,1 μ s before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		—	56,0	—	dB
Group delay predistortion					
(reference frequency 38,00 MHz)					
	$\Delta\tau$				
	35,00 MHz	—	20	—	ns
	34,42 MHz	—	70	—	ns
Impedance at 36,50 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,3 15,5	—	k Ω pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,7 4,7	—	k Ω pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



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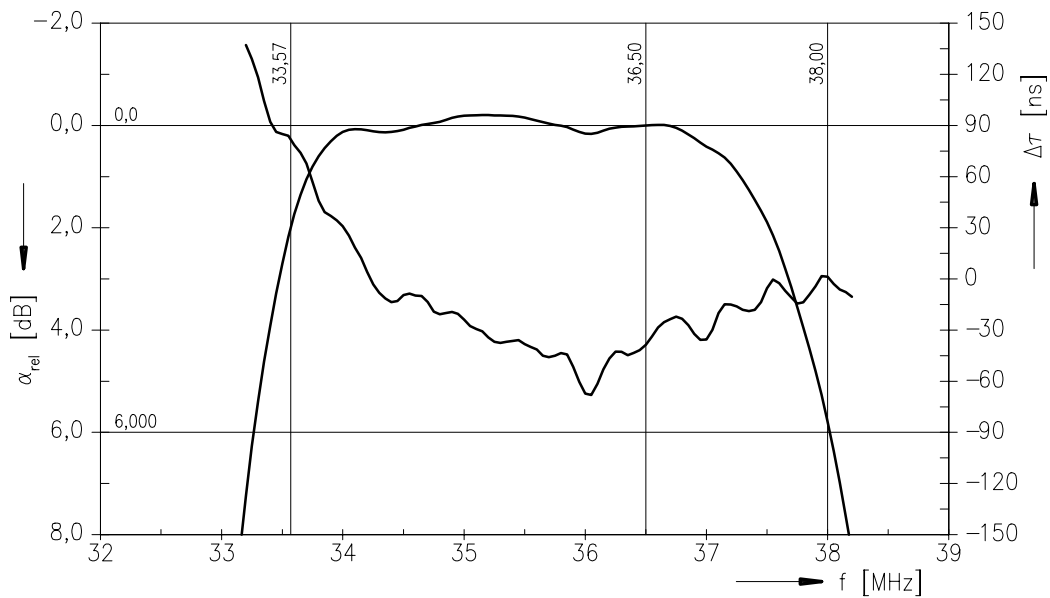
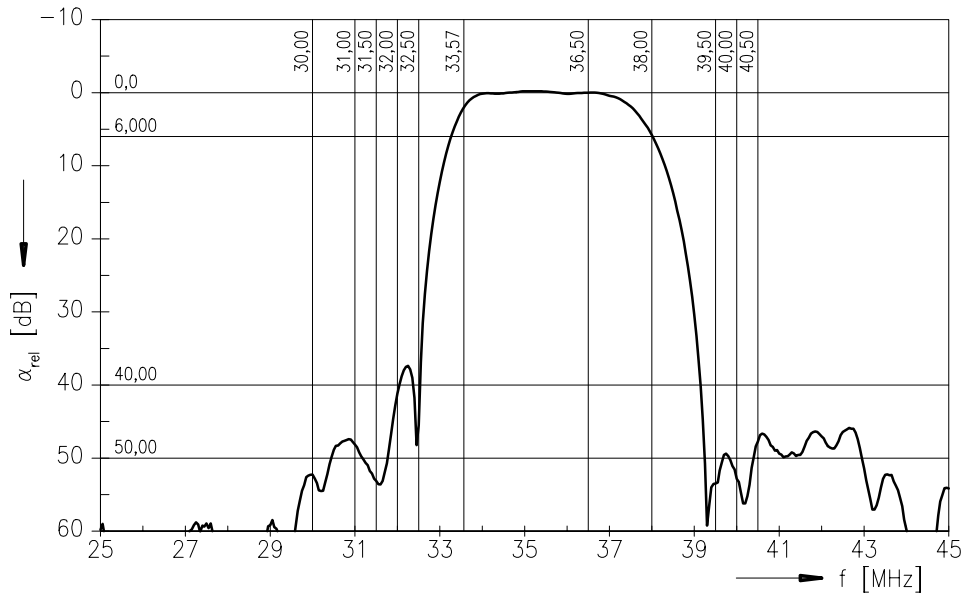
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Frequency response in B/G, D/K mode





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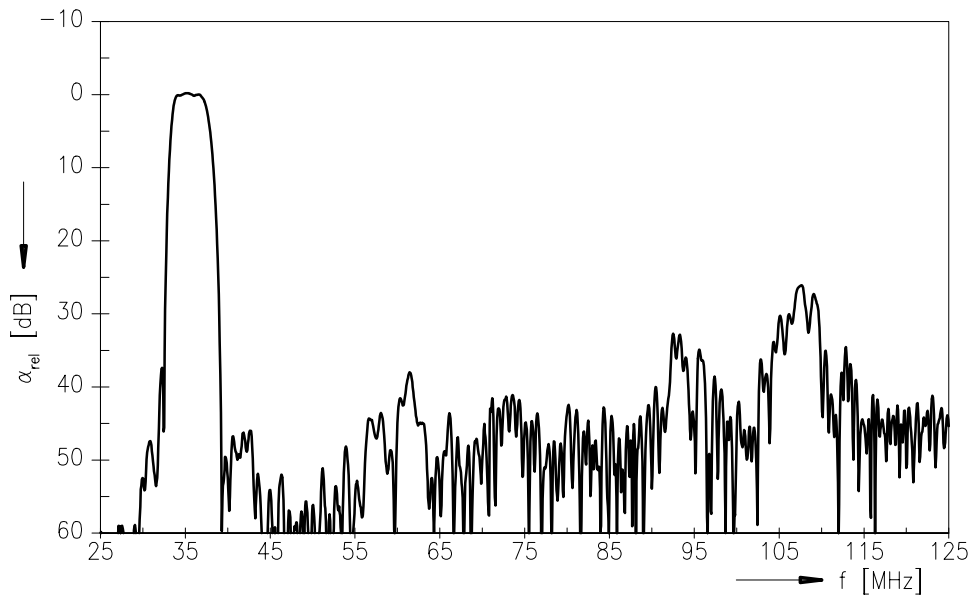
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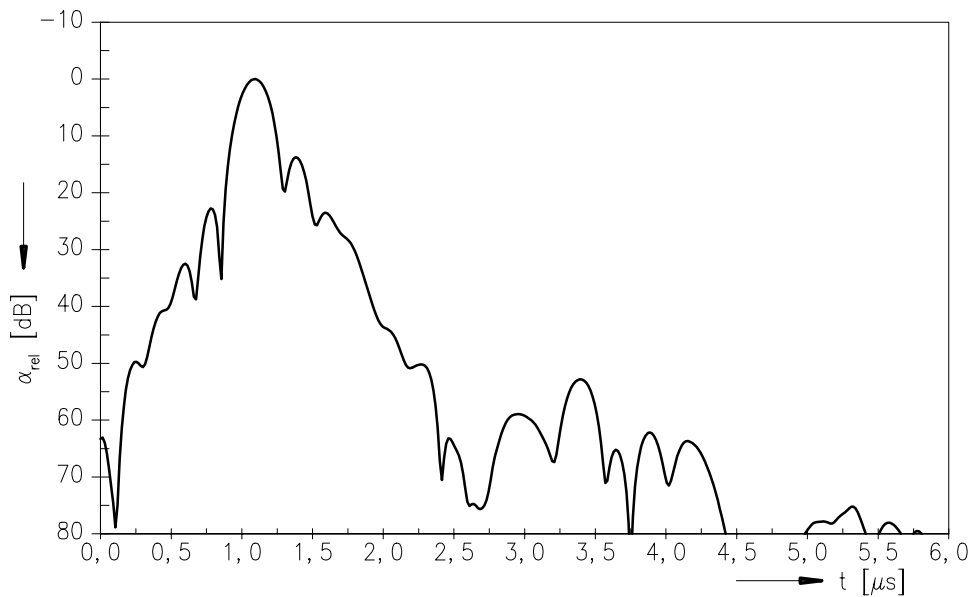
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Frequency response B/G, D/K mode



Time domain response B/G, D/K mode





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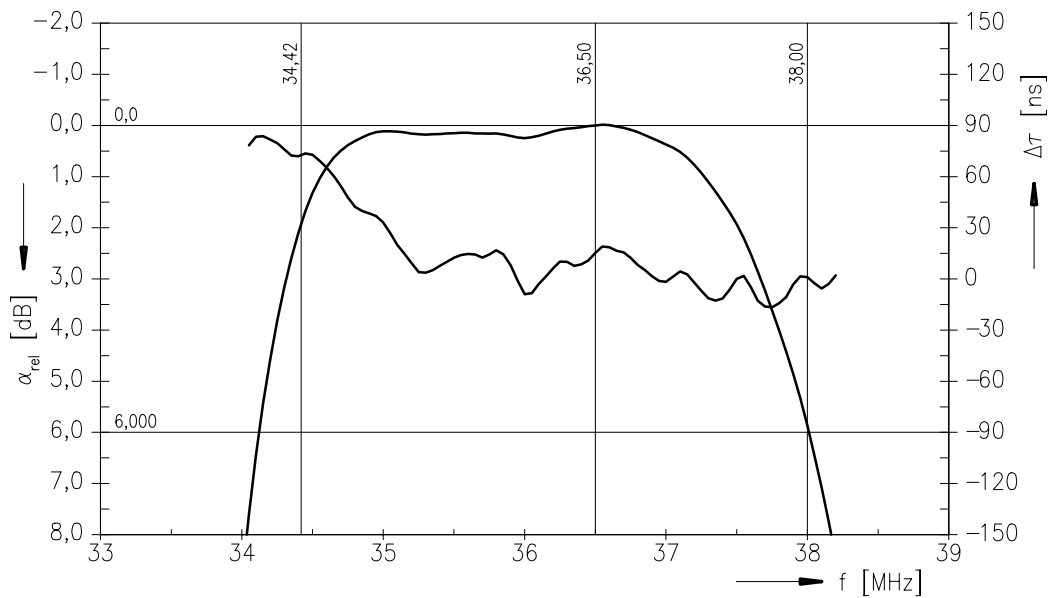
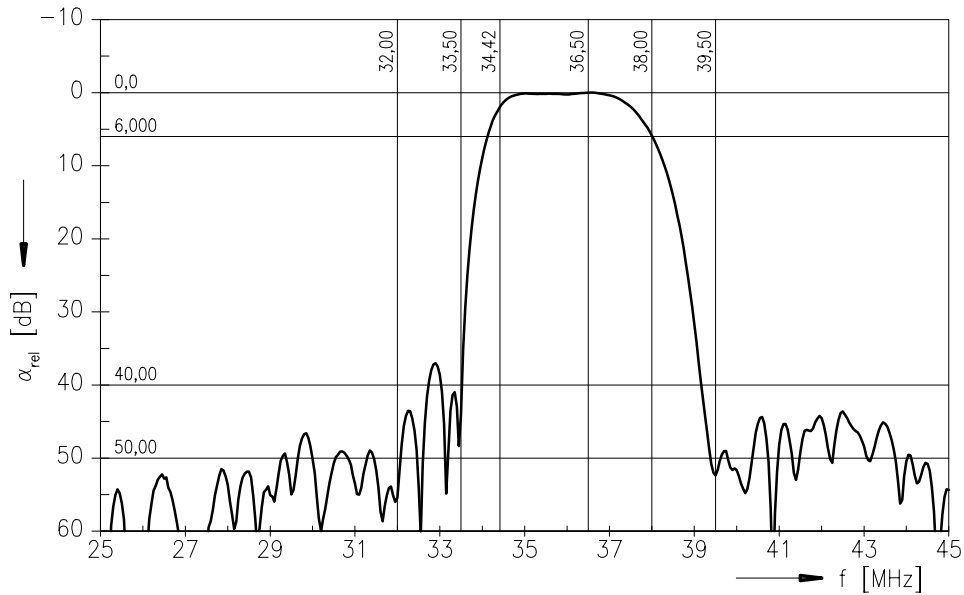
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Data Sheet

Frequency response in M/N mode





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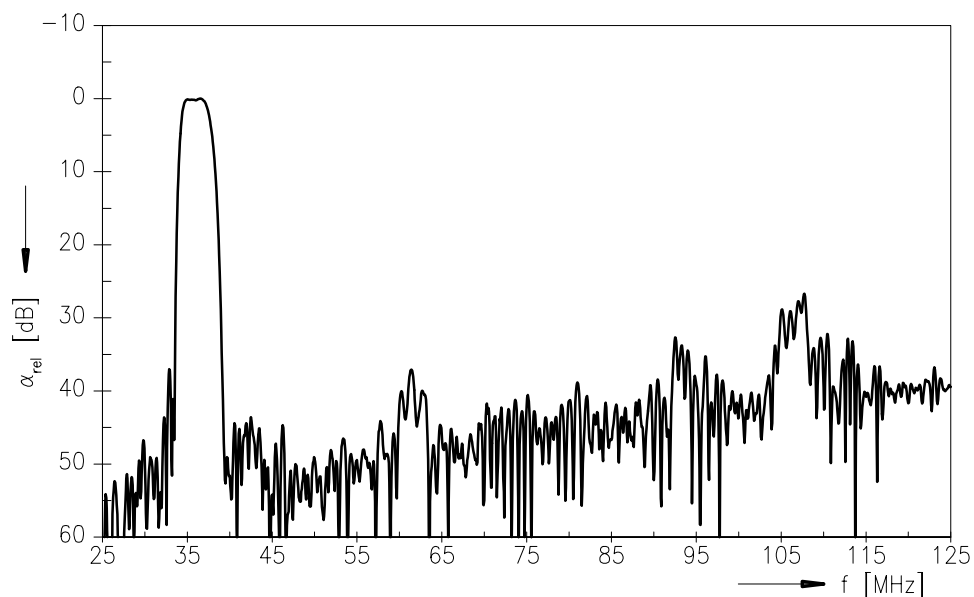
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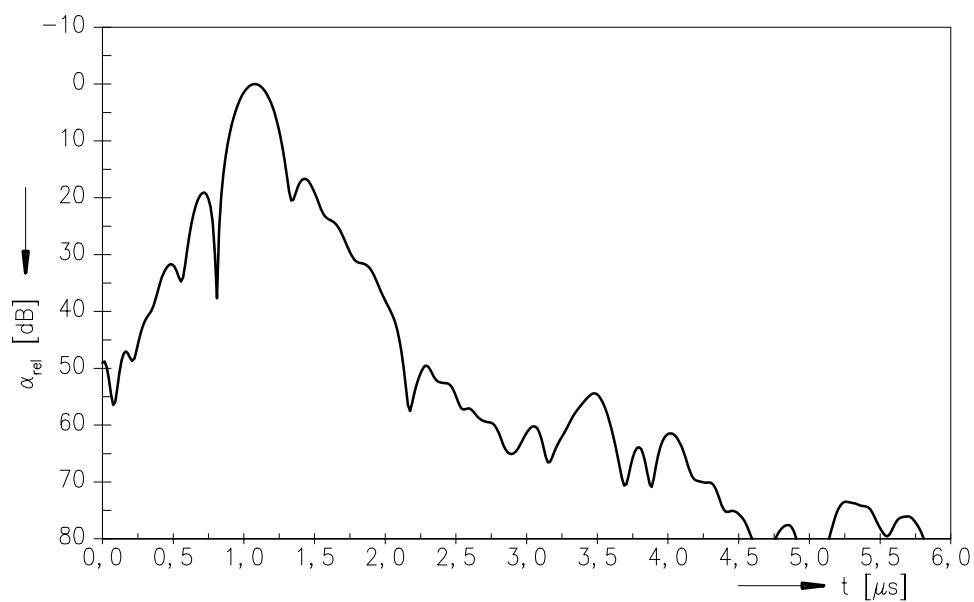
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Frequency response M/N mode



Time domain response M/N mode





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