



SAW multimedia filters

Series/Type: K7268D

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39389K7268N201		2011-01-14	2011-09-30	2012-09-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



SAW Components

K 7268 D

IF Filter for Intercarrier / Multistandard Applications

33,90 Mhz and 38,90 MHz

Data Sheet

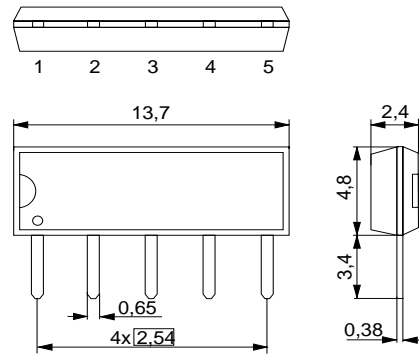
Standard

- B/G
- D/K
- I
- L, L'
- M/N

Duroplast package **SIP5D**

Features

- TV IF filter switchable from L,L' mode to M/N mode
- L,L' mode with Nyquist slopes at 33,90 MHz and at 38,90 MHz
- Constant group delay
- M/N mode with Nyquist slope and sound shelf at 34,40 MHz
- Constant group delay
- Suitable for CENELEC EN 55020
- Standard IC package



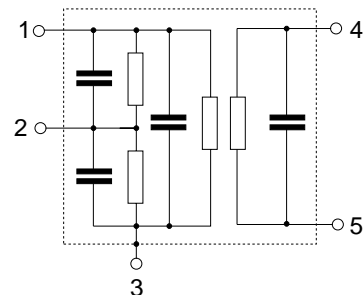
Dimensions in mm, approx. weight 0,5 g

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 7268 D	B39389-K7268-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 in L,L' 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	37,40 MHz	13,4	14,9	16,4	dB
Relative attenuation					
	α_{rel}				
Picture carrier	38,90 MHz	5,2	6,2	7,2	dB
	33,90 MHz	—	6,0	—	dB
Color carrier	34,47 MHz	-0,2	0,8	1,8	dB
Sound carrier	33,40 MHz	17,3	19,8	—	dB
	32,40 MHz	46,0	54,0	—	dB
	32,90 MHz	—	56,0	—	dB
Adjacent picture carrier	30,90 MHz	44,0	52,0	—	dB
	31,90 MHz	44,0	50,0	—	dB
	40,15 MHz	40,0	49,0	—	dB
Adjacent sound carrier	40,40 MHz	46,0	58,0	—	dB
	40,90 MHz	46,0	56,0	—	dB
	41,40 MHz	43,0	50,0	—	dB
Lower sidelobe	25,00 ... 32,40 MHz	40,0	49,0	—	dB
Upper sidelobe	40,40 ... 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 37,40 MHz)		42,0	50,0	—	dB
Feedthrough signal suppression					
1,2 μs ... 1,1 μs before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)					
	$\Delta\tau$	—	40	—	ns
Impedance at 37,40 MHz					
	Input: $Z_{IN} = R_{IN} \parallel C_{IN}$	—	1,1 \parallel 15,3	—	k Ω \parallel pF
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	1,5 \parallel 4,5	—	k Ω \parallel pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



Data Sheet

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

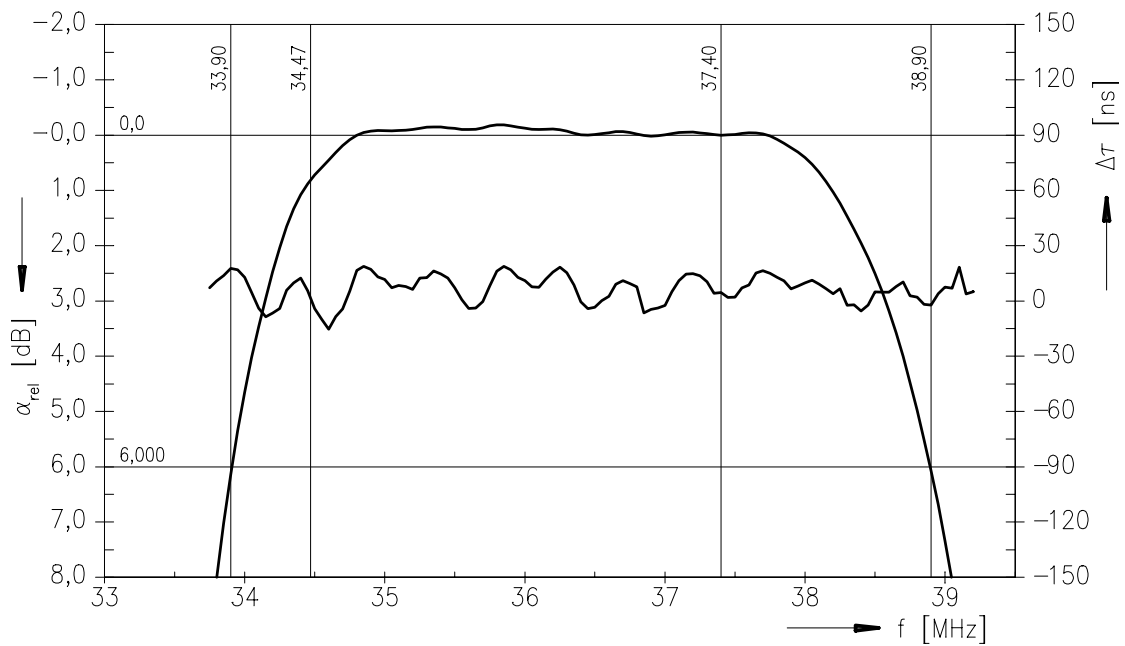
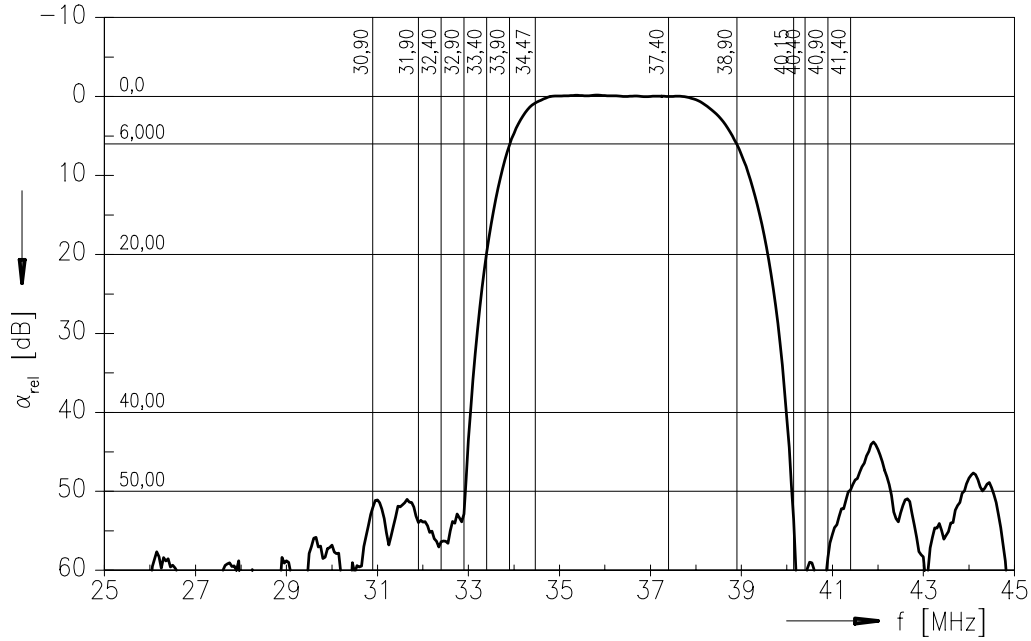
Reference temperature: $T_A = 25\text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 2\ \text{k}\Omega \parallel 3\ \text{pF}$

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	37,40 MHz	13,0	14,5	16,0	dB
Relative attenuation					
	α_{rel}				
Picture carrier	38,90 MHz	5,5	6,5	7,5	dB
Color carrier	35,32 MHz	1,7	2,7	3,7	dB
Sound carrier	34,40 MHz	15,4	16,9	18,4	dB
Adjacent picture carrier	32,90 MHz	42,0	46,0	—	dB
Adjacent sound carrier	40,40 MHz	40,0	46,0	—	dB
Lower sidelobe	25,00 ... 32,80 MHz	40,0	46,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	38,0	44,0	—	dB
Reflected wave signal suppression					
1,2 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		42,0	50,0	—	dB
Feedthrough signal suppression					
1,2 μs ... 1,1 μs before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz) (test pulse 250 ns,		50,0	56,0	—	dB
Group delay ripple (p-p)					
	$\Delta\tau$	—	40	—	ns
Impedance at 37,40 MHz					
	Input: $Z_{IN} = R_{IN} \parallel C_{IN}$	—	1,1 \parallel 19,0	—	k Ω \parallel pF
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	1,5 \parallel 4,5	—	k Ω \parallel pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



Data Sheet

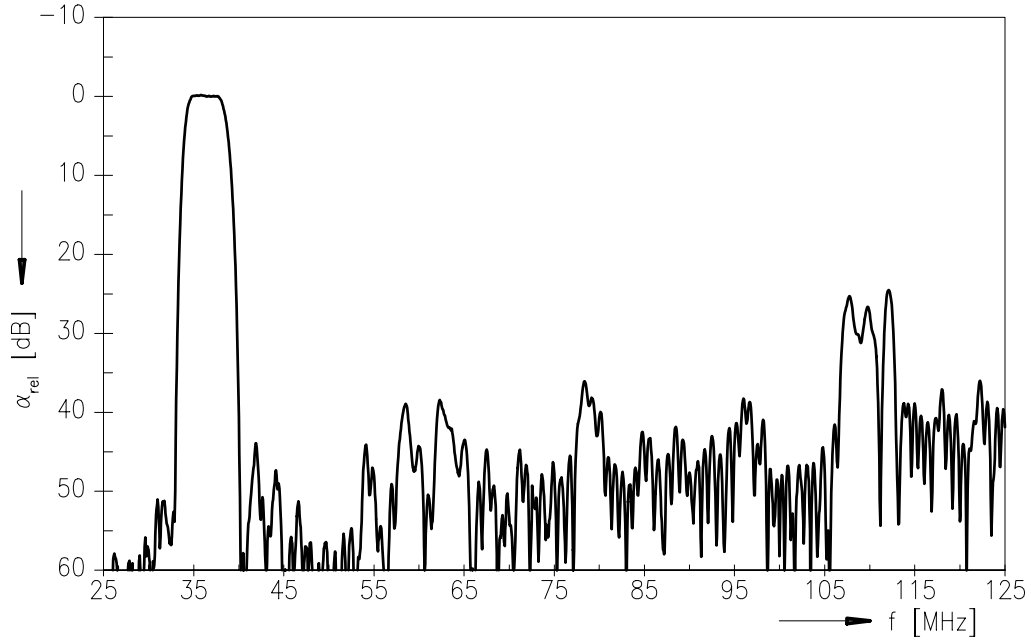
Frequency response L,L' mode



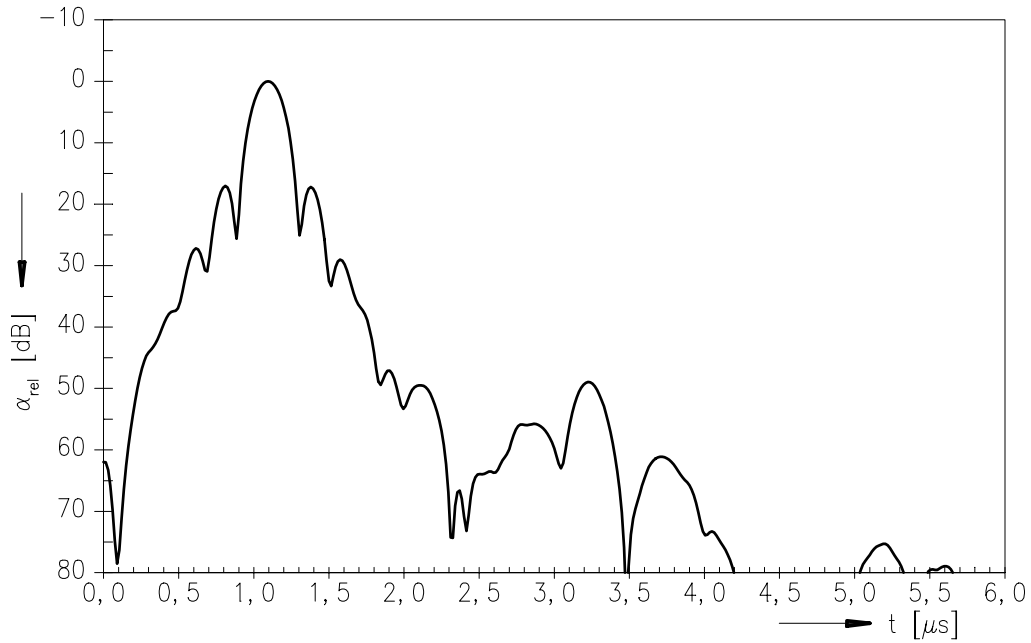


Data Sheet

Frequency response L,L' mode



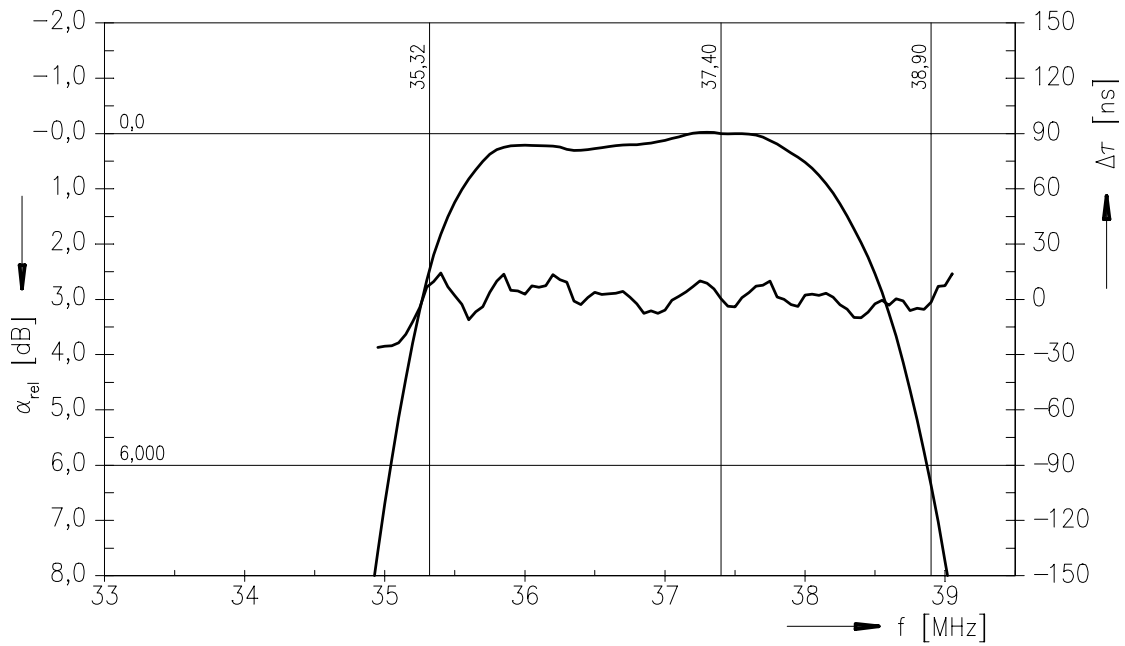
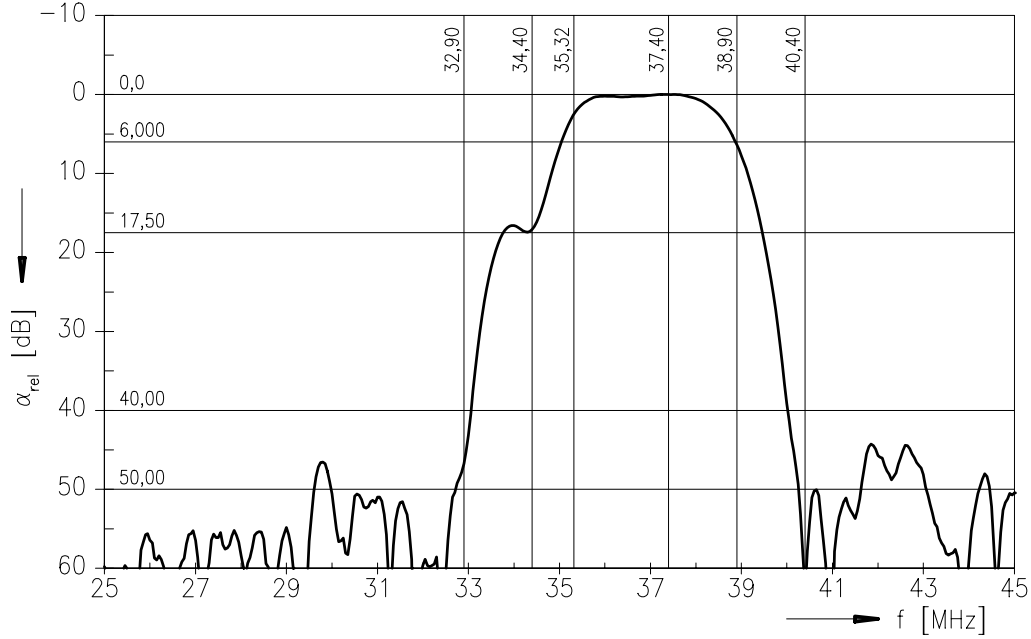
Time domain response L,L' mode





Data Sheet

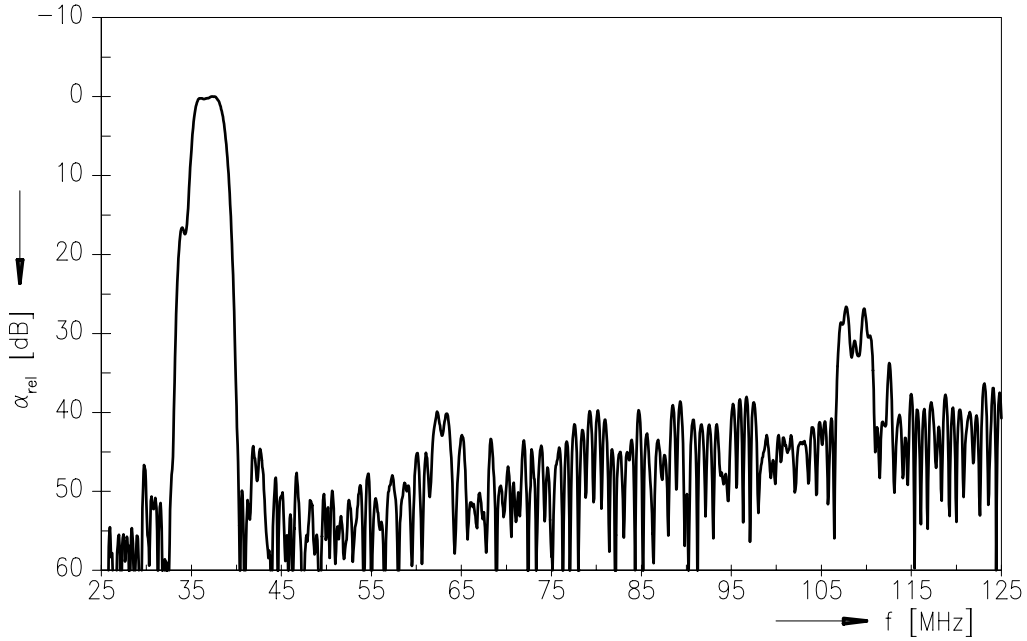
Frequency response M/N mode



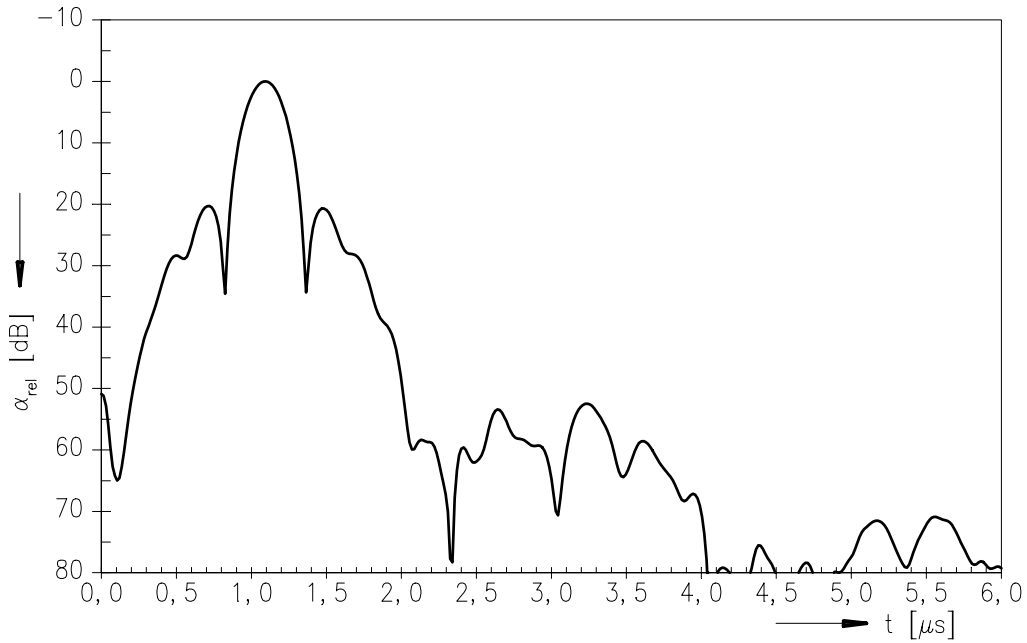


Data Sheet

Frequency response M/N mode



Time domain response M/N mode





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