SAW multimedia filters

Series/Type: K9655D

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39380K9655N201		2011-01-14	2011-09-30	2012-09-30

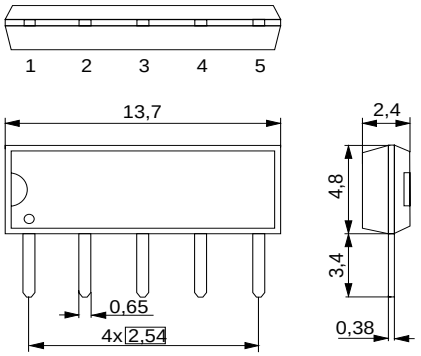
For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

Data Sheet

Standard

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

Duroplast package **SIP5D**



Dimensions in mm, approx. weight 0,5 g

Features

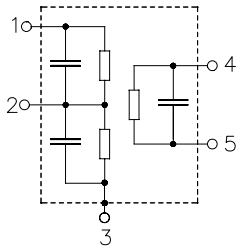
- TV IF audio filter with two channels
- Channel 1 (B/G, D/K, I) with one pass band for sound carriers at 31,45 MHz (I NICAM), 31,50 MHz (D/K), 32,00 MHz (I), and 32,50 MHz (B/G)
- Channel 2 (M/N) with one pass band for sound carrier at 33,50 MHz
- Standard IC package

Terminals

- Tinned CuFe alloy

Pin configuration

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



Type	Ordering code	Marking and package according to	Packing according to
K 9655 D	B39380-K9655-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 of channel 1 (switching pin 2 connected to ground)

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

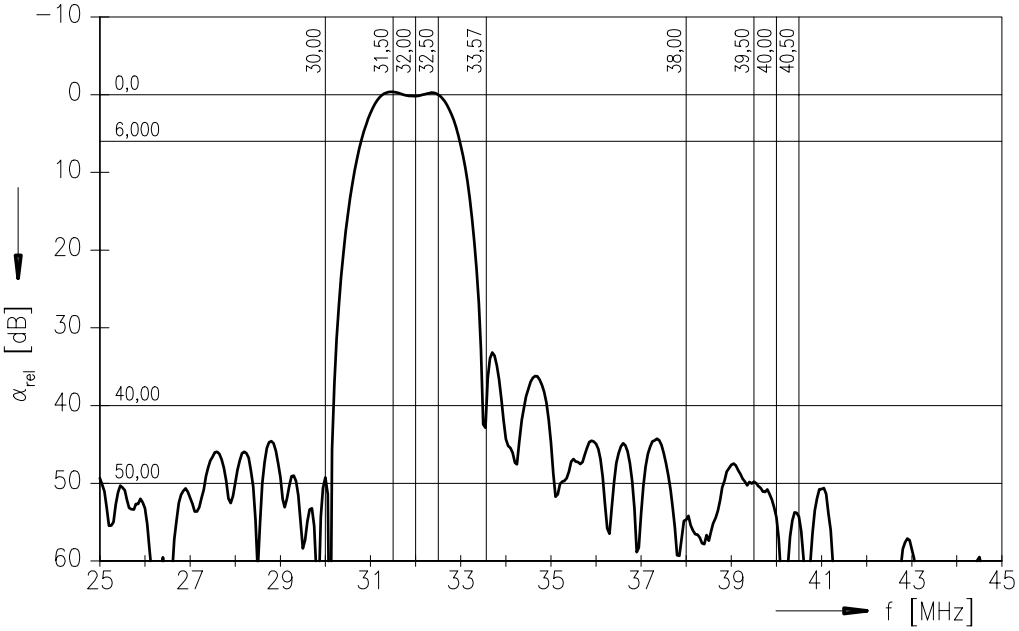
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data		32,50 MHz		12,9	14,4	15,9	dB
Relative attenuation			α_{rel}				
Sound carrier		31,45 MHz		–1,4,	–0,4	0,6	dB
		31,50 MHz		–1,4	–0,4	0,6	dB
		32,00 MHz		–0,9	0,1	1,1	dB
Picture carrier		38,00 MHz		46,0	57,0	—	dB
Color carrier		33,57 MHz		28,0	39,0	—	dB
Adjacent picture carrier		30,00 MHz		42,0	49,0	—	dB
Adjacent sound carrier		39,50 MHz		42,0	49,0	—	dB
		40,00 MHz		44,0	57,0	—	dB
		40,50 MHz		44,0	54,0	—	dB
Lower sidelobe	25,00 ...	30,00 MHz		38,0	43,0	—	dB
Upper sidelobe	38,00 ...	45,00 MHz		40,0	46,0	—	dB
Impedance at 32,50 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				—	1,2 ‖10,9	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	1,0 ‖ 6,4	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–72	—	ppm/K

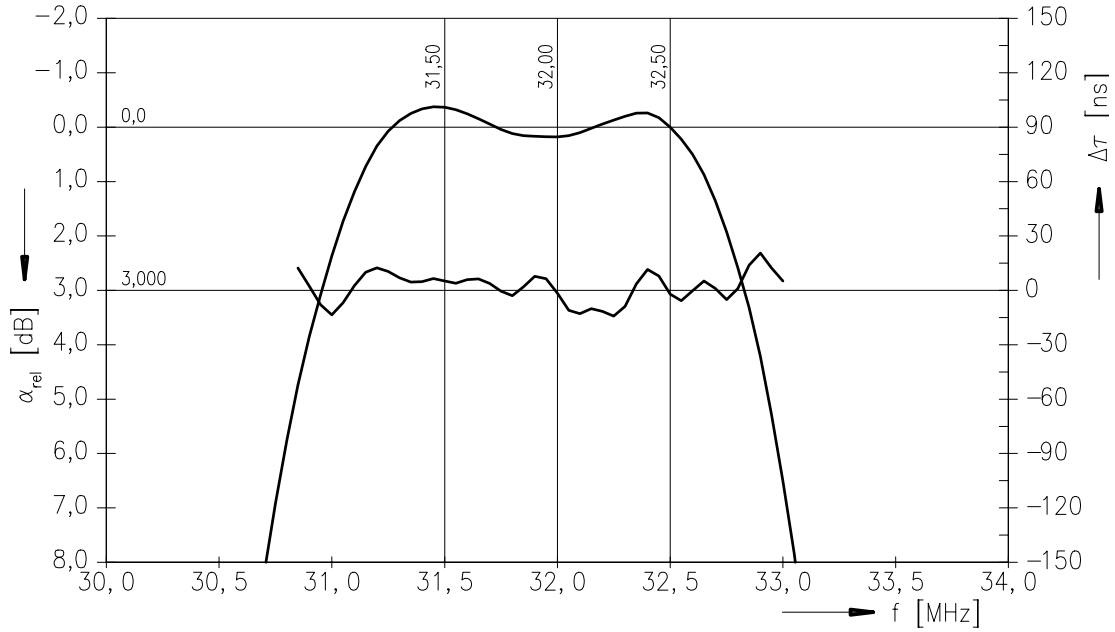
Characteristics of channel 2 (switching pin 2 connected to pin 1)

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

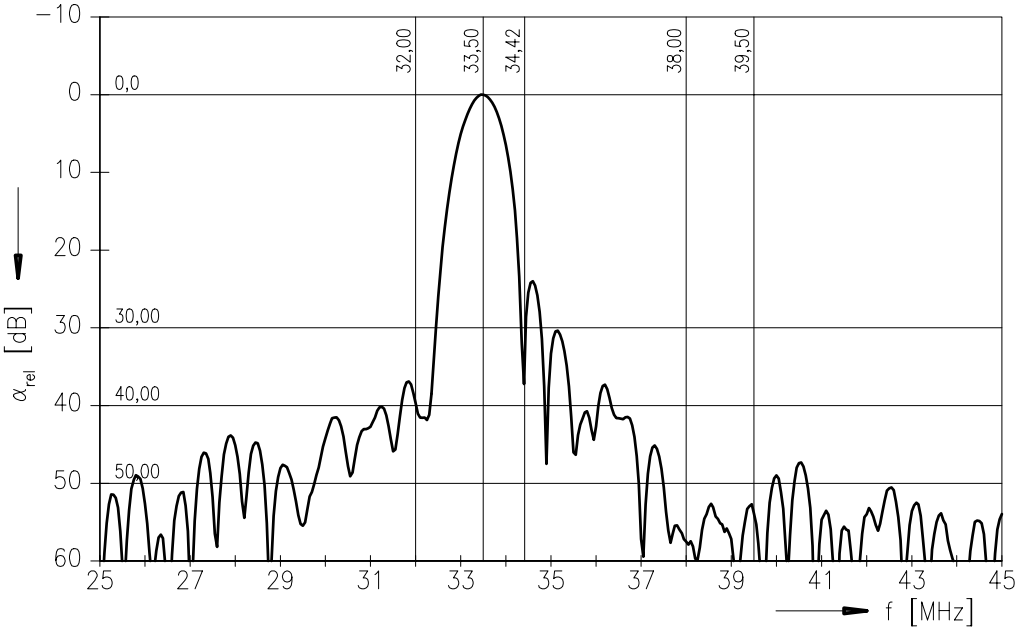
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data		33,50 MHz		11,9	13,4	14,9	dB
Relative attenuation			α_{rel}				
Picture carrier		38,00 MHz		46,0	57,0	—	dB
Color carrier		34,42 MHz		22,0	29,0	—	dB
Adjacent picture carrier		32,00 MHz		33,0	40,0	—	dB
Adjacent sound carrier		39,50 MHz		44,0	52,0	—	dB
Lower sidelobe	25,00 ...	32,00 MHz		32,0	36,0	—	dB
Upper sidelobe	38,00 ...	45,00 MHz		38,0	48,0	—	dB
Impedance at 33,50 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				—	0,6 ‖16,4	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	1,5 ‖ 4,7	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–72	—	ppm/K

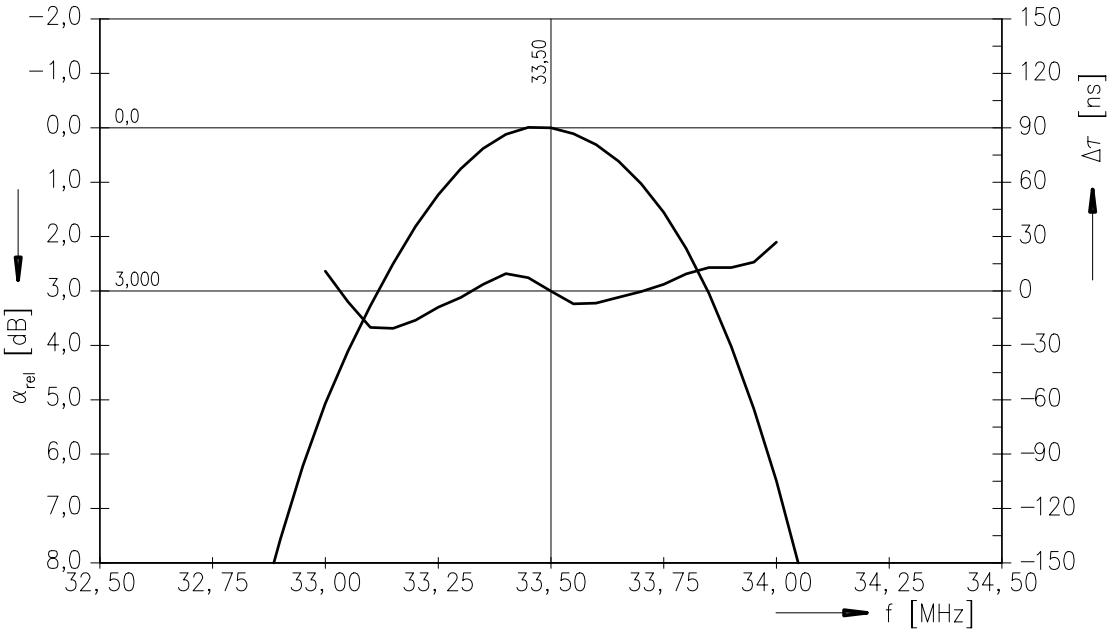
Frequency response of channel 1





Frequency response of channel 2





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This brochure replaces the previous edition.

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