EPCOS

SAW Components

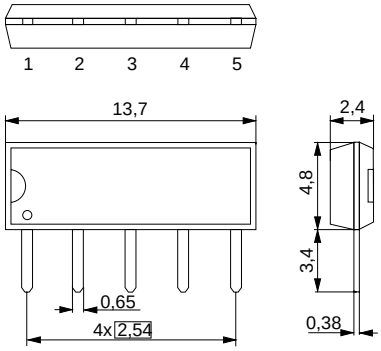
Data Sheet K 9663 D

Data Sheet

Standard

- B/G
- D/K
- I
- L

Duroplast package **SIP5D**



Dimensions in mm, approx. weight 0,5 g

Features

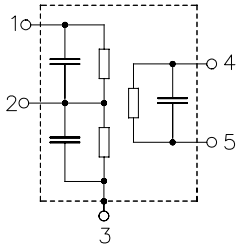
- TV IF audio filter with two channels
- Channel 1 (D/K, I, L) with one pass band for sound carriers between 32,35 MHz and 33,05 MHz
- Channel 2 (B/G) with one pass band for sound carriers at 33,40 MHz and 33,05 MHz
- Standard IC package

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 9663 D	B39389-K9663-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

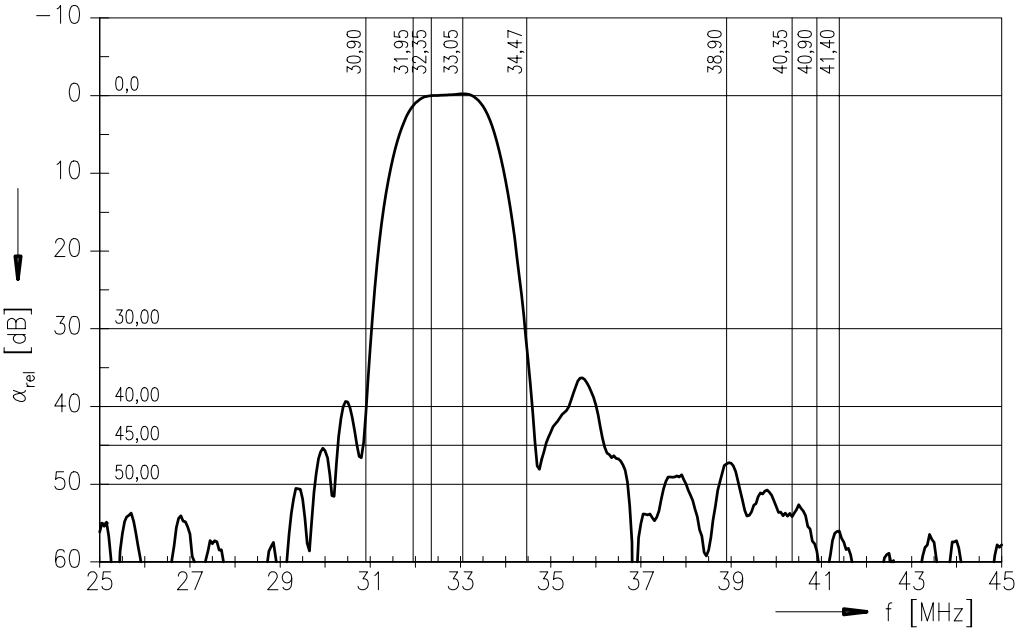
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data		32,35 MHz		10,9	12,4	13,9	dB
Relative attenuation			α_{rel}				
Sound carrier		32,40 MHz		—	0,0	—	dB
		32,90 MHz		—	–0,2	—	dB
		31,95 MHz		0,1	1,1	2,1	dB
		33,05 MHz		–1,3	–0,3	0,7	dB
		33,30 MHz		–0,8	0,2	1,2	dB
Picture carrier		38,90 MHz		40,0	46,0	—	dB
Color carrier		34,47 MHz		26,0	32,0	—	dB
Adjacent picture carrier		30,90 MHz		32,0	39,0	—	dB
Adjacent sound carrier		40,35 MHz		43,0	52,0	—	dB
		40,90 MHz		46,0	58,0	—	dB
		41,05 MHz		46,0	58,0	—	dB
Lower sidelobe	25,00 ...	30,90 MHz		32,0	38,0	—	dB
Upper sidelobe	38,90 ...	45,00 MHz		38,0	46,0	—	dB
Impedance at 32,35 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				—	0,6 ‖17,9	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	2,2 ‖ 5,2	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–72	—	ppm/K

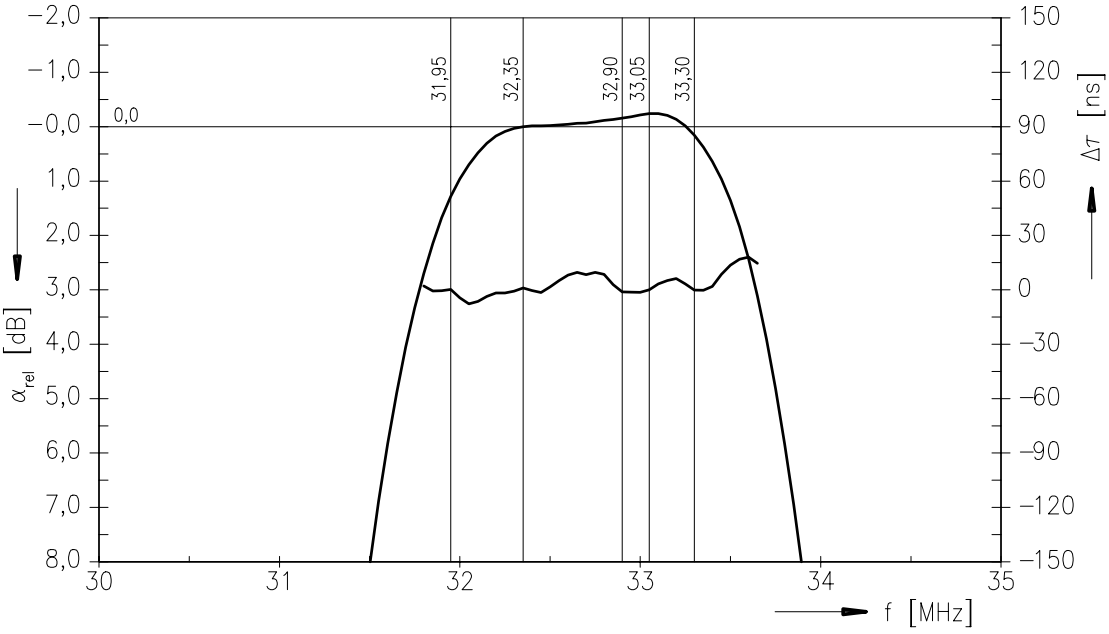
Characteristics of channel 2 (switching pin 2 connected to pin 1)

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

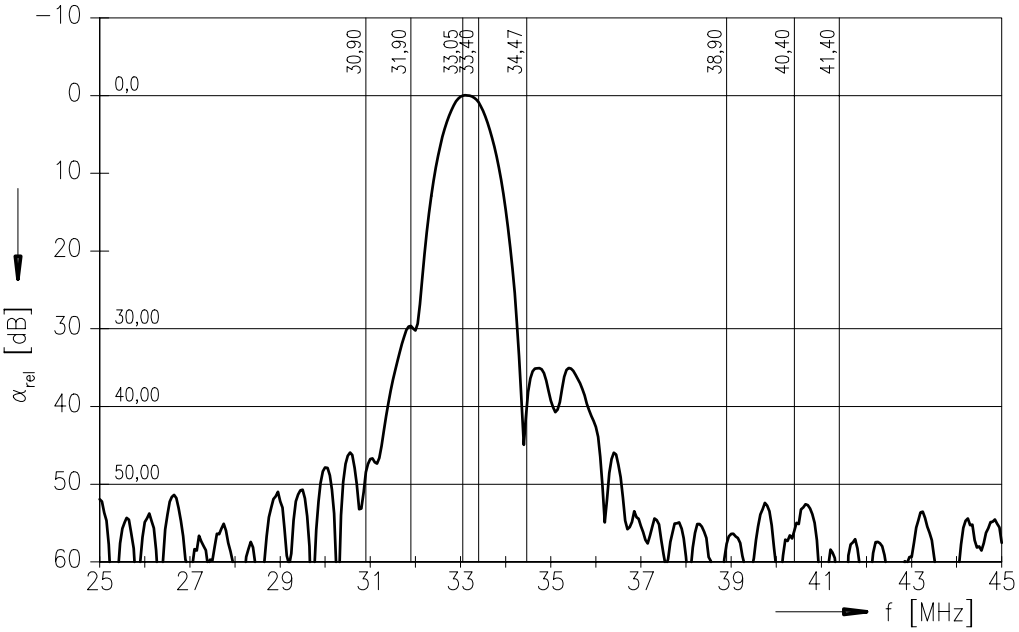
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	33,05 MHz		10,8	12,3	13,8	dB
Relative attenuation		α_{rel}				
Sound carrier	33,40 MHz		0,1	1,1	2,1	dB
Picture carrier	38,90 MHz		44,0	54,0	—	dB
Color carrier	34,47 MHz		32,0	42,0	—	dB
Adjacent picture carrier	30,90 MHz		40,0	48,0	—	dB
	31,90 MHz		26,0	30,0	—	dB
Adjacent sound carrier	40,40 MHz		42,0	52,0	—	dB
	41,40 MHz		42,0	60,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz		38,0	46,0	—	dB
Upper sidelobe	38,90 ... 45,00 MHz		40,0	50,0	—	dB
Impedance at 33,05 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	0,5 ‖22,2	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	2,2 ‖ 4,6	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

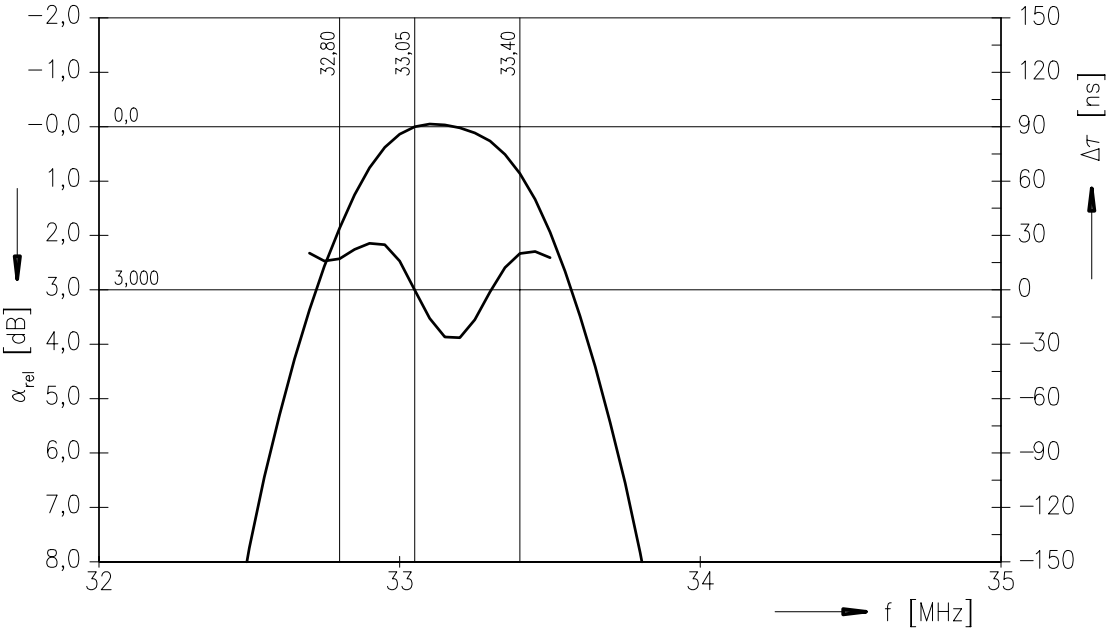
Frequency response of channel 1





Frequency response of channel 2





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