SAW COMPONENTS

Series/Type: K3352K

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39380K3352K100	K3964M + K9358M	2008-01-18	2008-06-30	2008-09-30

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

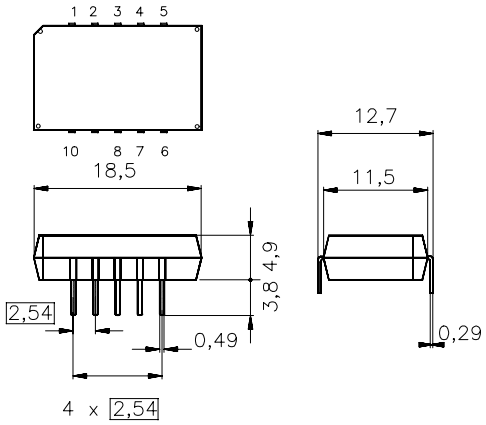
Features

- TV IF filter for quasi/split sound applications (separate picture and sound channel)
- Picture channel with Nyquist slope and sound suppression
- Customized group delay predistortion
- Sound channel with one passband for sound carriers between 31,50 MHz and 32,50 MHz
- Suitable for CENELEC EN 55020

Terminals

- Tinned CuFe alloy

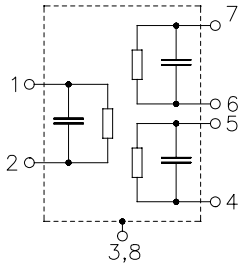
Plastic package **DIP10K**



Dimensions in mm, approx. weight 1,8 g

Pin configuration

1	Input
2	Input - ground
3; 8	Chip carrier - ground
4; 5	Output - sound
6; 7	Output - picture
9	Free
10	Not connected



Type	Ordering code	Marking and package according to	Packing according to
K 3352 K	B39380-K3352-K100	C61157-A2-A3	F61074-V8068-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 picture channel

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

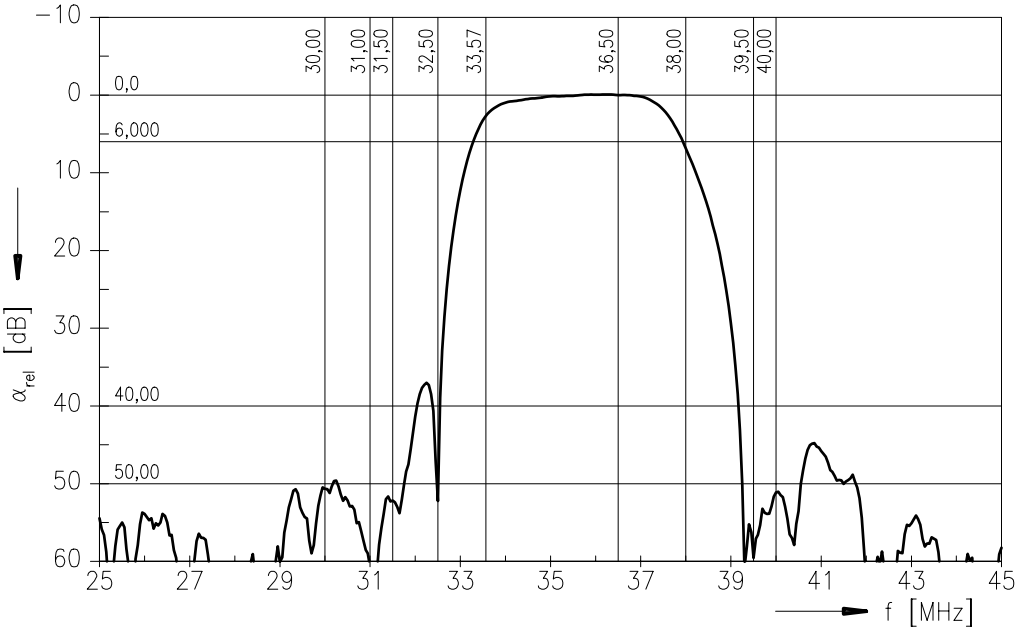
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	36,50 MHz		12,1	13,6	15,1	dB
Relative attenuation		α_{rel}				
Picture carrier	38,00 MHz		5,4	6,4	7,4	dB
Color carrier	33,57 MHz		1,8	2,8	3,8	dB
Sound carrier	31,50 MHz		44,0	52,0	—	dB
	32,50 MHz		39,0	54,0	—	dB
Adjacent picture carrier	30,00 MHz		43,0	52,0	—	dB
	31,00 MHz		48,0	56,0	—	dB
Adjacent sound carrier	39,50 MHz		43,0	53,0	—	dB
	40,00 MHz		44,0	52,0	—	dB
	39,26 MHz		39,0	46,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz		40,0	50,0	—	dB
Upper sidelobe	40,00 ... 45,00 MHz		38,0	45,0	—	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)		$\Delta\tau$				
	37,00 MHz		—	30	—	ns
	33,57 MHz		—	-22	—	ns
Impedance at 36,50 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	1,0 ‖22,0	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	1,7 ‖ 4,3	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	-72	—	ppm/K

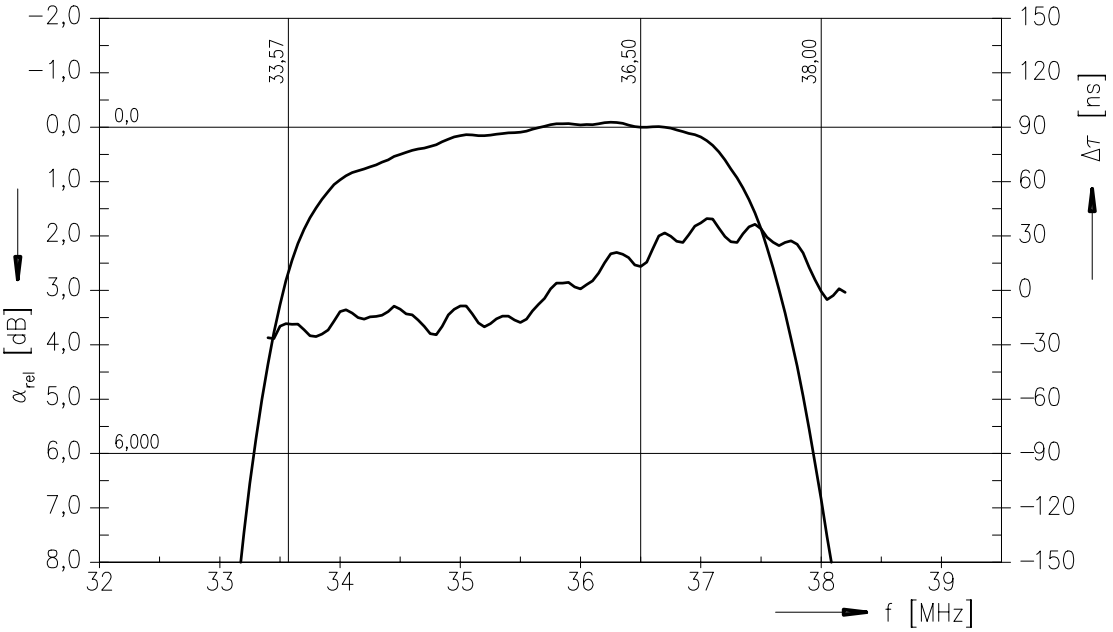
Characteristics of sound channel

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

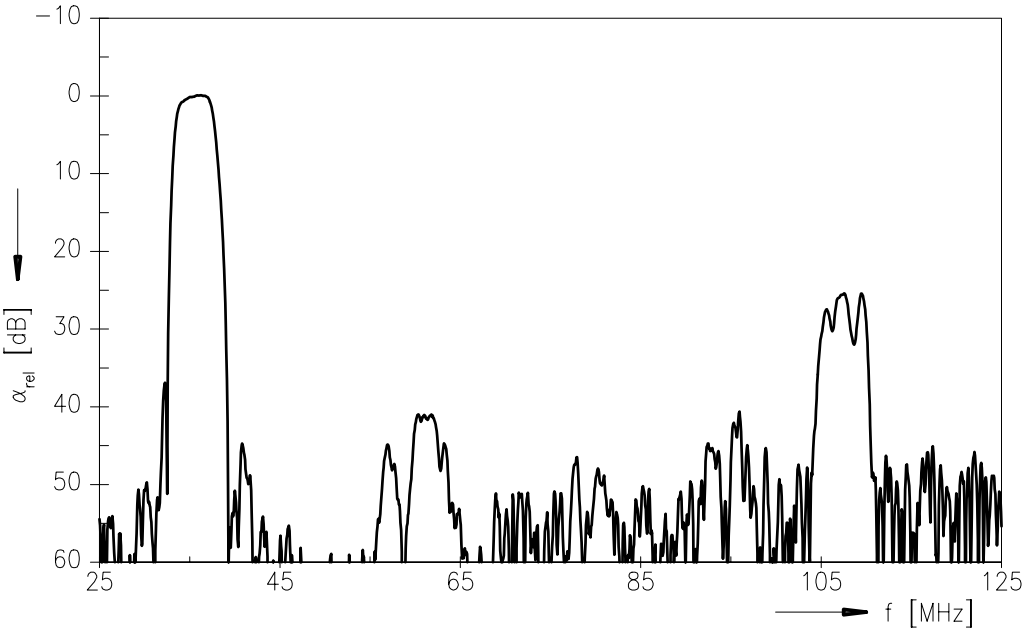
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data	31,50	MHz		12,3	13,8	15,3	dB
Relative attenuation			α_{rel}				
Sound carrier	32,50	MHz		0,7	1,7	2,7	dB
Picture carrier	38,00	MHz		37,0	42,0	—	dB
Color carrier	33,57	MHz		27,0	34,0	—	dB
Adjacent picture carrier	30,00	MHz		36,0	44,0	—	dB
	31,00	MHz		—	6,9	—	dB
Adjacent sound carrier	39,50	MHz		42,0	49,0	—	dB
	40,00	MHz		41,0	47,0	—	dB
Lower sidelobe	25,00 ... 30,00	MHz		32,0	37,0	—	dB
Upper sidelobe	38,00 ... 45,00	MHz		35,0	41,0	—	dB
Impedance at 31,50 MHz Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	2,1‖3,9	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	-72	—	ppm/K

Frequency response of picture channel

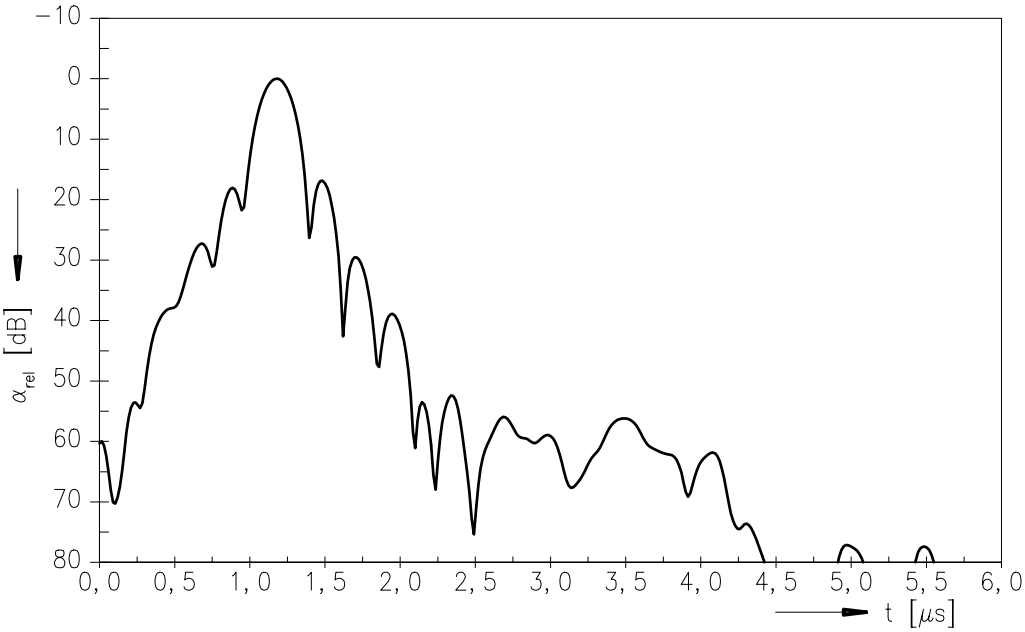




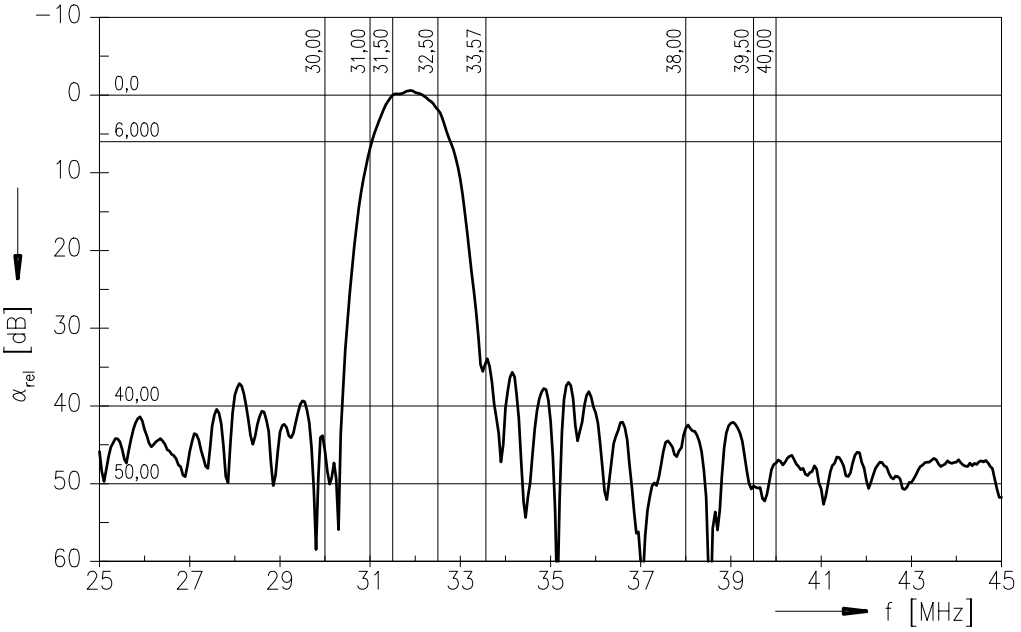
Frequency response of picture channel



Time domain response of picture channel



Frequency response of sound channel



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