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EPCOS

SAW Components

Data Sheet K 6265 K

Data Sheet

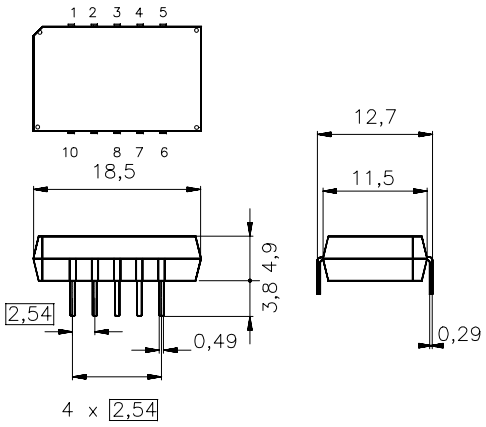
Standard

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

Features

- TV IF filter switchable from M/N mode to D/K mode
- M/N mode with Nyquist slope and sound shelf at 33,50 MHz
- Constant group delay
- D/K mode with Nyquist slope and broad sound shelf for sound carriers at 31,50 MHz and 32,50 MHz
- Customized group delay predistortion

Plastic package **DIP10K**



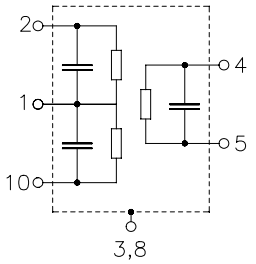
Dimensions in mm, approx. weight 1,8 g

Terminals

- Tinned CuFe alloy

Pin configuration

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



Type	Ordering code	Marking and package according to	Packing according to
K 6265 K	B39380-K6265-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}	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

Characteristics in M/N mode (switching input pin 10 connected to input pin 1)

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

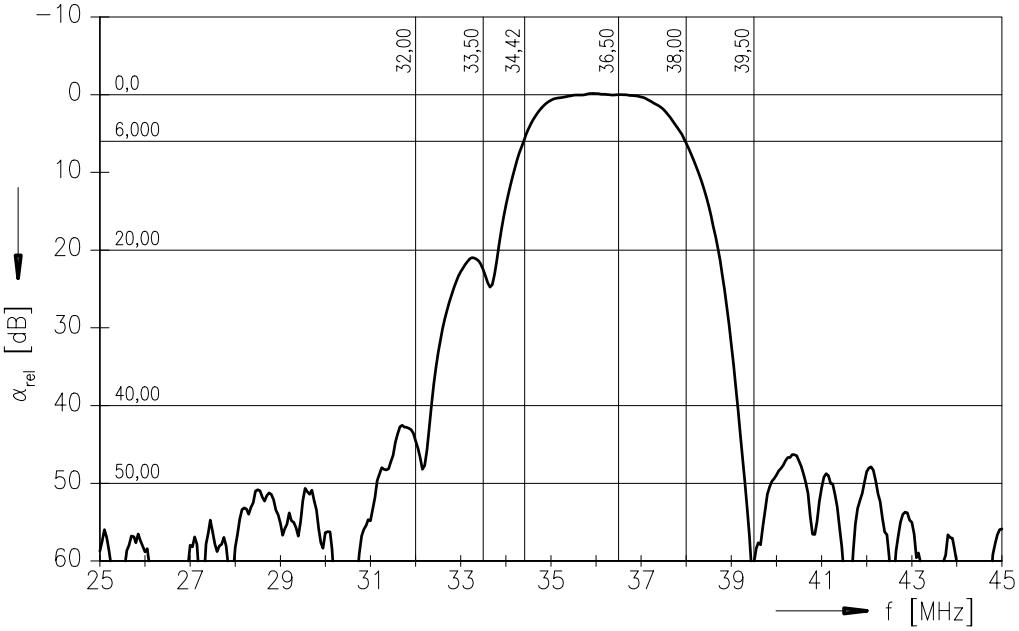
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	36,50 MHz		14,4	15,9	17,4	dB
Relative attenuation		α_{rel}				
Picture carrier	38,00 MHz		5,0	6,0	7,0	dB
Color carrier	34,42 MHz		4,6	5,6	6,6	dB
Sound carrier	33,50 MHz		20,0	22,0	24,0	dB
Adjacent picture carrier	32,00 MHz		37,0	43,0	—	dB
Adjacent sound carrier	39,50 MHz		46,0	60,0	—	dB
Lower sidelobe	25,00 ... 32,00 MHz		35,0	41,0	—	dB
Upper sidelobe	39,50 ... 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	49,0	—	dB
Feedthrough signal suppression 1,3 µs ... 1,2 µs before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)			—	56,0	—	dB
Group delay ripple (p-p)		$\Delta\tau$	—	40	—	ns
Impedance at 36,50 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	0,9 ‖21,7	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	1,4 ‖ 5,9	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

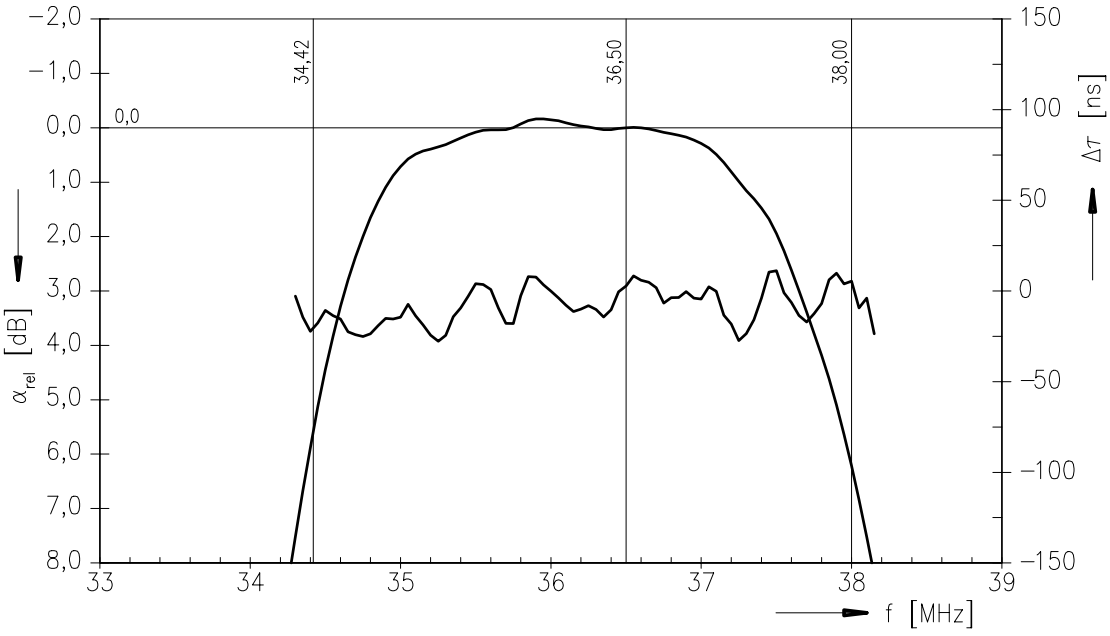
Characteristics in D/K mode (switching input pin 10 connected to ground input pin 2)

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

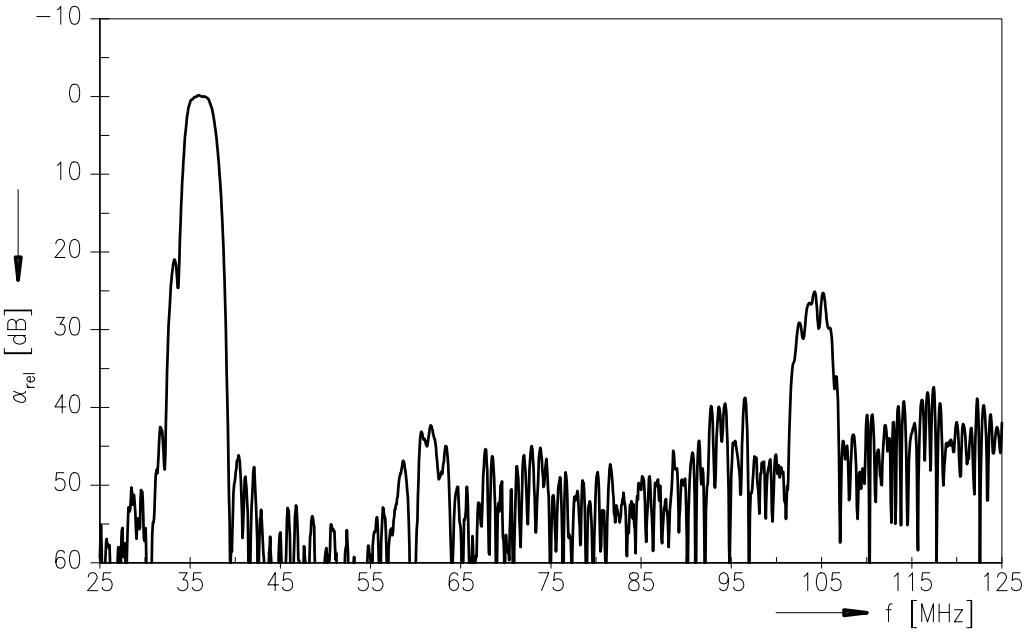
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	36,50 MHz		14,2	15,7	17,2	dB
Relative attenuation		α_{rel}				
Picture carrier	38,00 MHz		5,3	6,3	7,3	dB
Color carrier	33,57 MHz		0,8	1,8	2,8	dB
Sound carrier	31,50 MHz		18,7	20,7	22,7	dB
	32,50 MHz		15,9	17,9	19,9	dB
Adjacent picture carrier	30,00 MHz		46,0	54,0	—	dB
	31,00 MHz		40,0	50,0	—	dB
Adjacent sound carrier	39,50 MHz		44,0	55,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz		39,0	45,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz		37,0	43,0	—	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	50,0	—	dB
Feedthrough signal suppression						
1,3 µs ... 1,2 µs before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)			—	56,0	—	dB
Group delay predistortion		$\Delta\tau$				
(reference frequency 38,00 MHz)						
	34,50 MHz		—	–80	—	ns
	33,57 MHz		—	–20	—	ns
Impedance at 36,50 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	0,6 ||27,0	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	1,4 || 5,9	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

Frequency response M/N mode (switching input pin 10 connected to input pin 1)

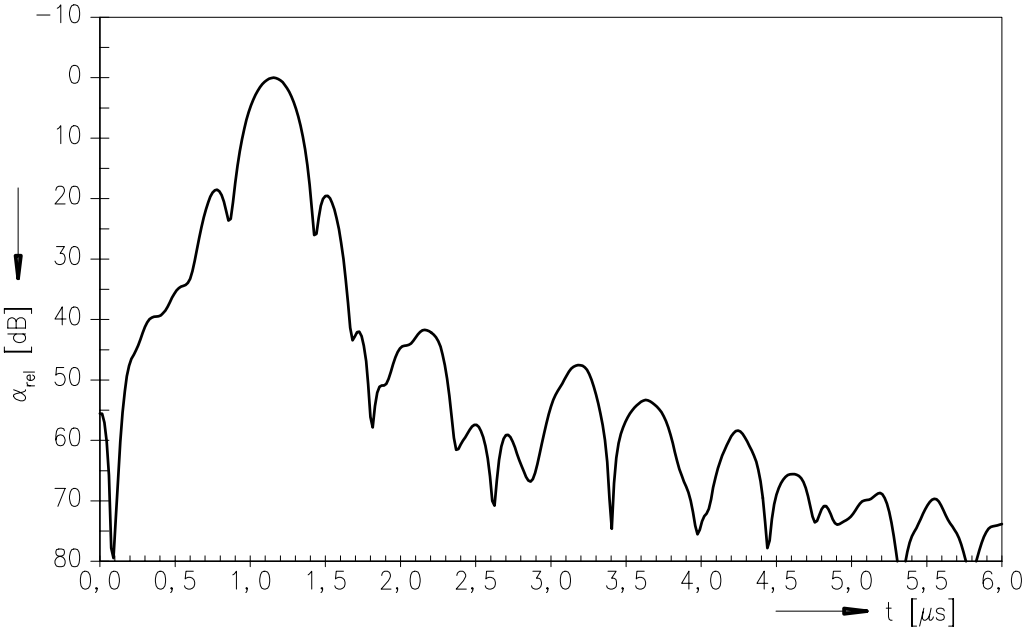




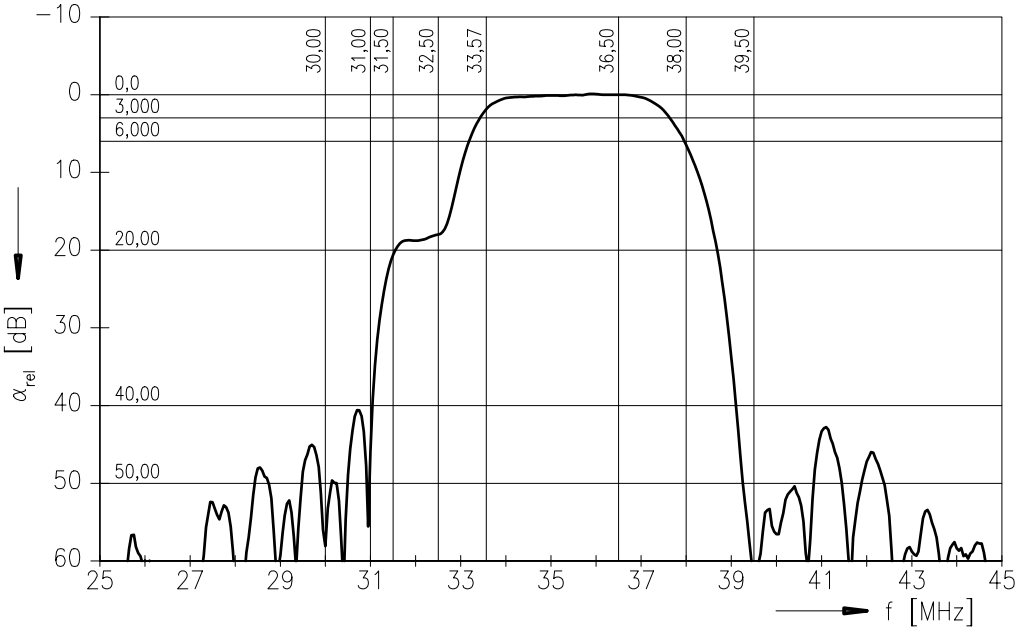
Frequency response M/N mode (switching input pin 10 connected to input pin 1)

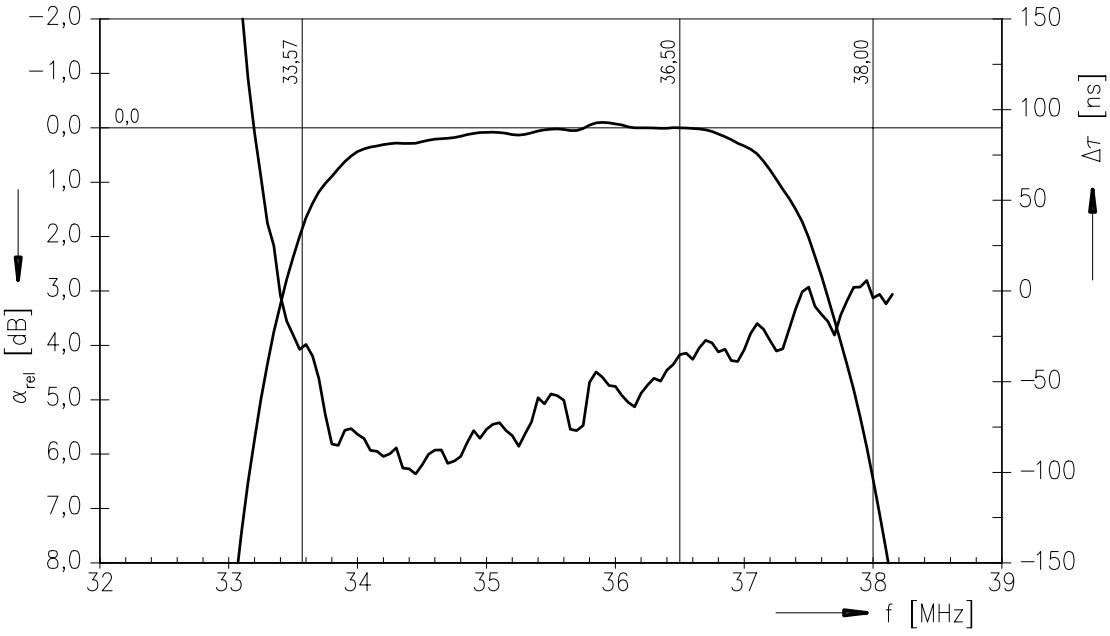


Time domain response M/N mode

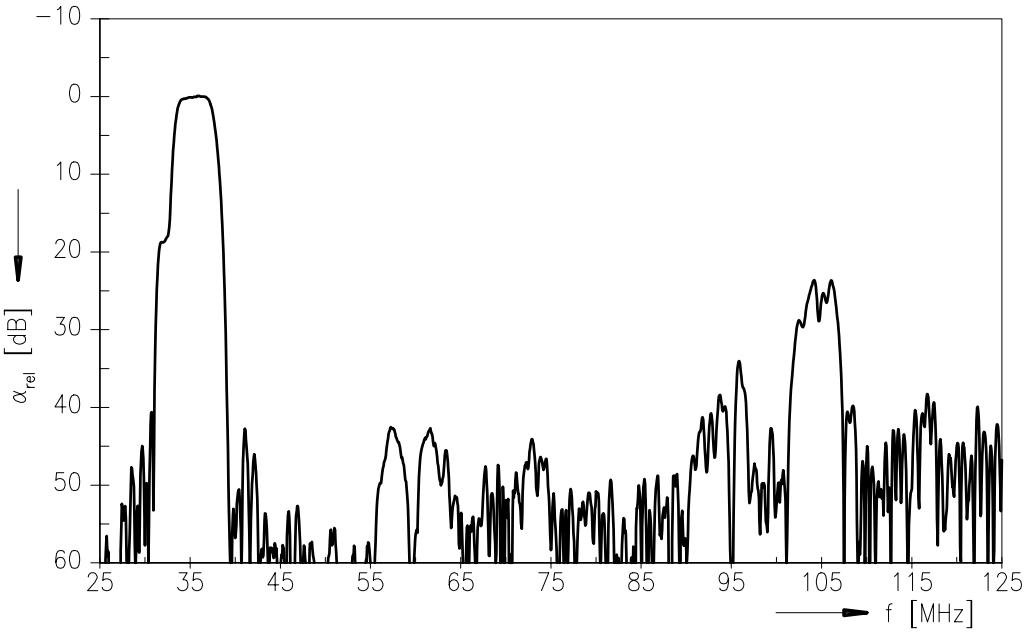


Frequency response D/K mode (switching input pin 10 connected to ground input pin 2)

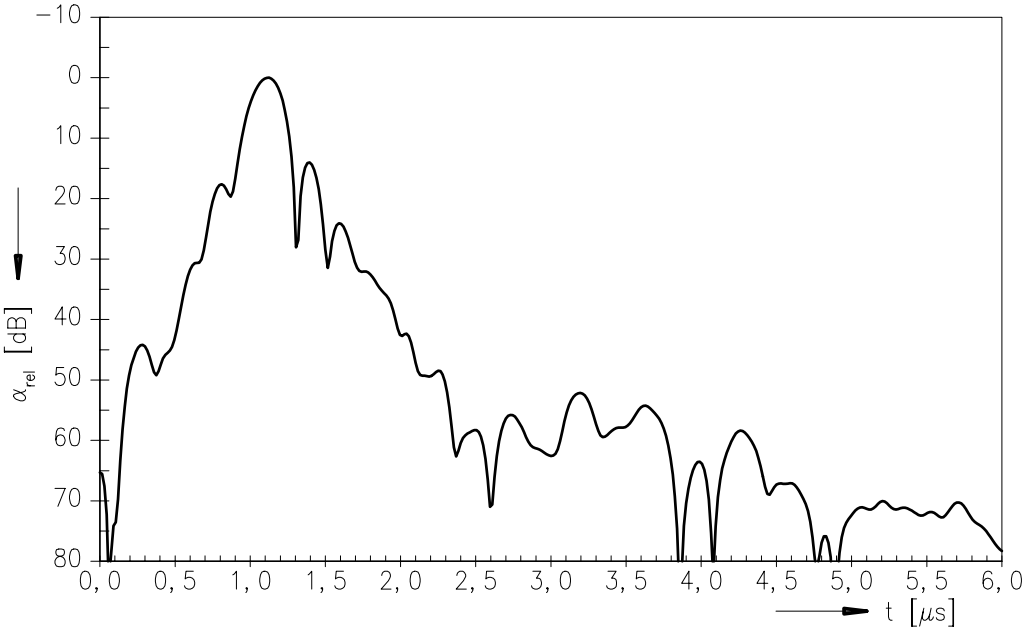




Frequency response D/K mode (switching input pin 10 connected to ground input pin 2)



Time domain response D/K mode



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