



# SAW Components

Data Sheet K 6264 K





**SAW Components**

**K 6264 K**

**IF Filter for Intercarrier/Multistandard Applications**

**38,00 MHz**

**Data Sheet**

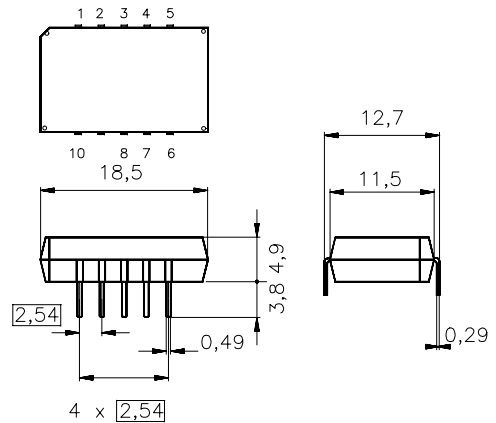
**Standard**

- 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
- Group delay predistortion
- Suitable for CENELEC EN 55020

Plastic package **DIP10K**



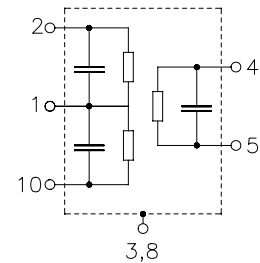
Dimensions in mm, approx. weight 1,8 g

**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 6264 K	B39380-K6264-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



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

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

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Insertion attenuation</b>					
	$\alpha$				
Reference level for the following data	36,50 MHz	13,7	15,2	16,7	dB
<b>Relative attenuation</b>					
	$\alpha_{rel}$				
Picture carrier	38,00 MHz	5,2	6,2	7,2	dB
Color carrier	34,42 MHz	3,8	4,8	5,8	dB
Sound carrier	33,50 MHz	19,6	21,1	22,6	dB
Adjacent picture carrier	32,00 MHz	42,0	50,0	—	dB
Adjacent sound carrier	39,50 MHz	46,0	59,0	—	dB
Lower sidelobe	25,00 ... 32,00 MHz	40,0	47,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz	40,0	48,0	—	dB
<b>Reflected wave signal suppression</b>					
1,2 $\mu\text{s}$ ... 6,0 $\mu\text{s}$ after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		41,0	48,0	—	dB
<b>Feedthrough signal suppression</b>					
1,2 $\mu\text{s}$ ... 1,1 $\mu\text{s}$ before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		—	56,0	—	dB
<b>Group delay ripple (p-p)</b>					
	$\Delta\tau$	—	40	—	ns
<b>Impedance at 36,50 MHz</b>					
Input:	$Z_{IN} = R_{IN} \parallel C_{IN}$	—	1,1 $\parallel$ 20,9	—	k $\Omega$ $\parallel$ pF
Output:	$Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	1,5 $\parallel$ 5,8	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>					
	$TC_f$	—	-72	—	ppm/K



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

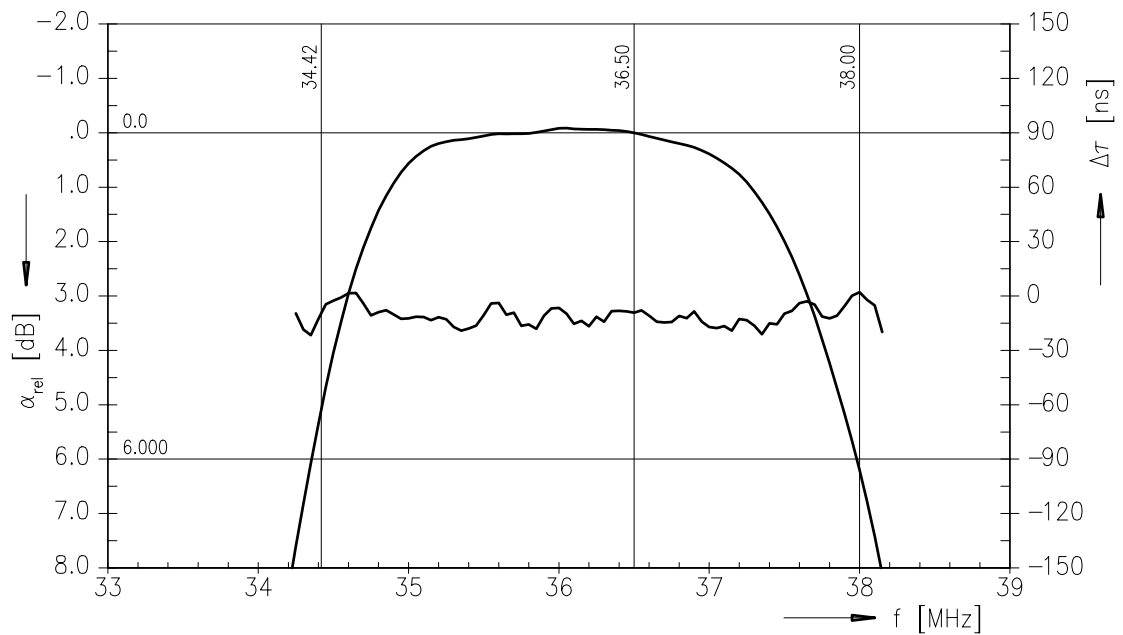
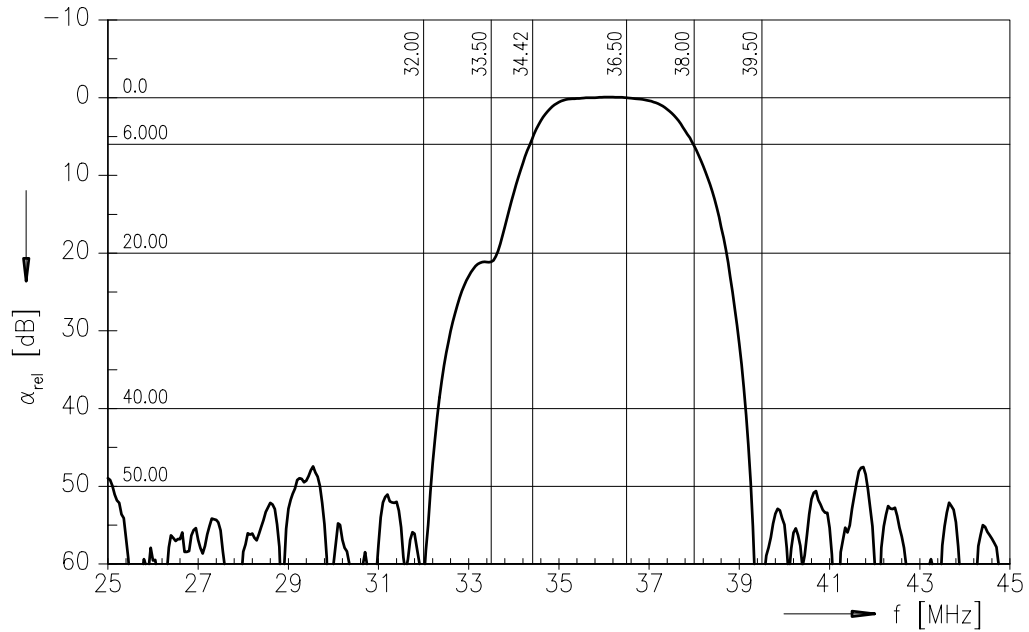
Reference temperature:  $T_A = 25\text{ °C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Insertion attenuation</b>					
	$\alpha$				
Reference level for the following data	36,50 MHz	13,8	15,3	16,8	dB
<b>Relative attenuation</b>					
	$\alpha_{rel}$				
Picture carrier	38,00 MHz	5,0	6,0	7,0	dB
Color carrier	33,57 MHz	1,2	2,2	3,2	dB
Sound carrier	31,50 MHz	18,2	19,7	21,2	dB
	32,50 MHz	17,7	19,2	—	dB
Adjacent picture carrier	30,00 MHz	43,0	51,0	—	dB
Adjacent sound carrier	39,50 MHz	44,0	55,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz	40,0	46,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz	38,0	45,0	—	dB
<b>Reflected wave signal suppression</b>					
1,2 $\mu$ s ... 6,0 $\mu$ s after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		41,0	48,0	—	dB
<b>Feedthrough signal suppression</b>					
1,2 $\mu$ s ... 1,1 $\mu$ s before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		—	56,0	—	dB
<b>Group delay predistortion</b>					
(reference frequency 38,00 MHz)					
	$\Delta\tau$				
	37,00 MHz	—	15	—	ns
	33,57 MHz	—	35	—	ns
<b>Impedance at 36,50 MHz</b>					
	Input: $Z_{IN} = R_{IN} \parallel C_{IN}$	—	0,8 $\parallel$ 26,8	—	k $\Omega$ $\parallel$ pF
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	1,5 $\parallel$ 5,7	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>					
	$TC_f$	—	-72	—	ppm/K



Data Sheet

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





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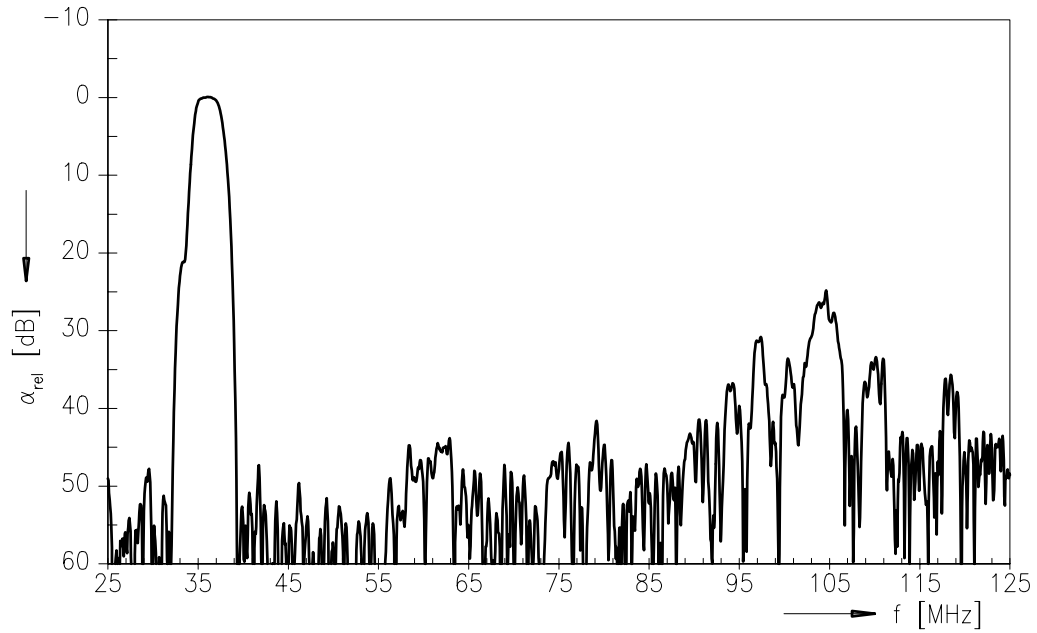
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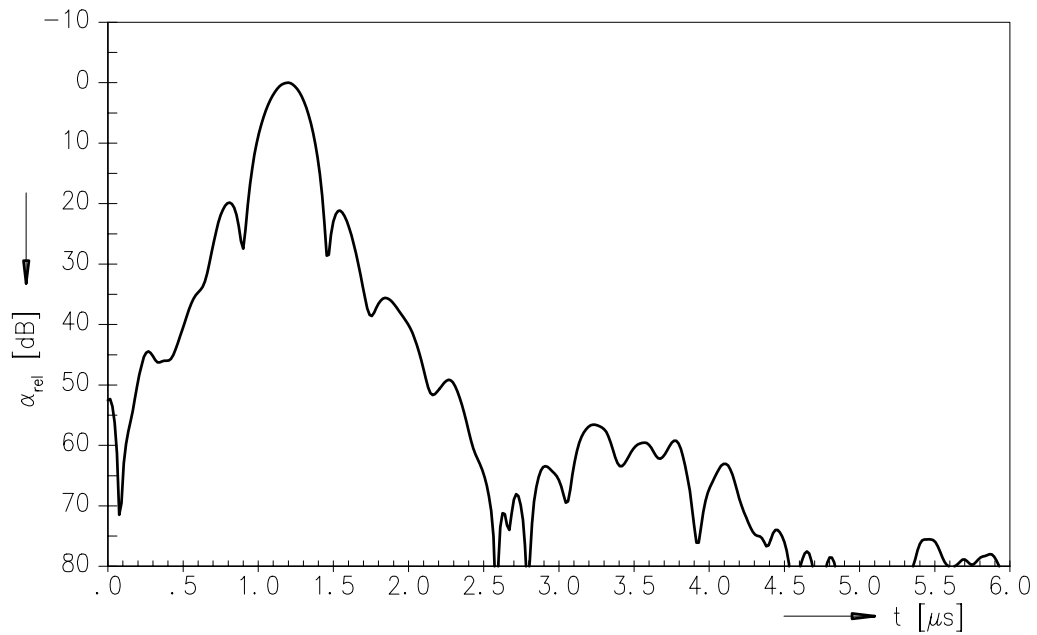
38,00 MHz

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



Time domain response M/N mode





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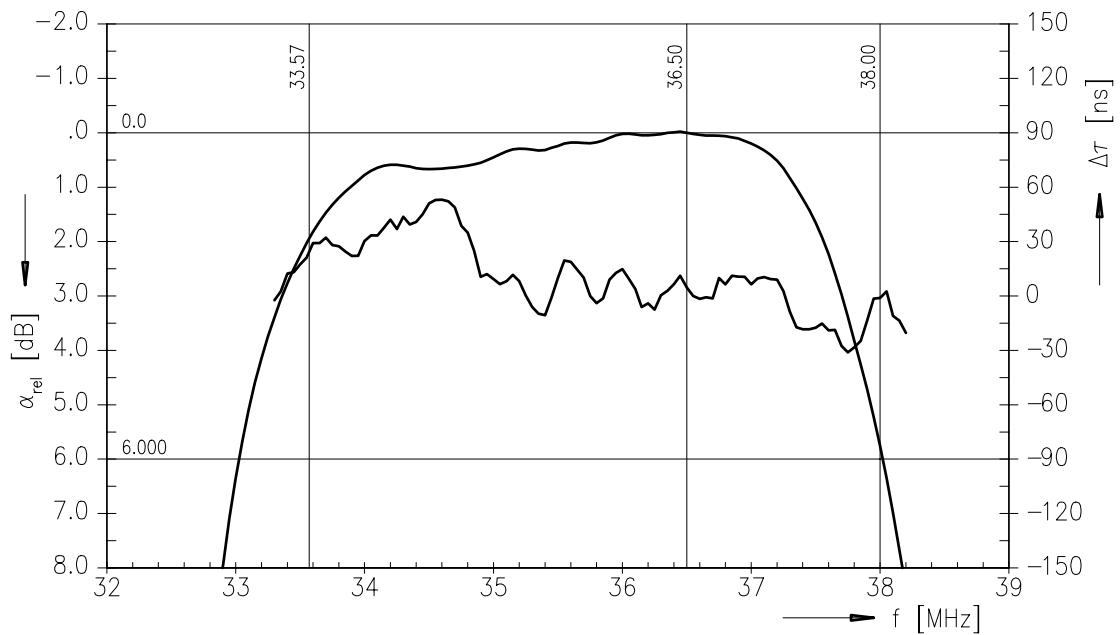
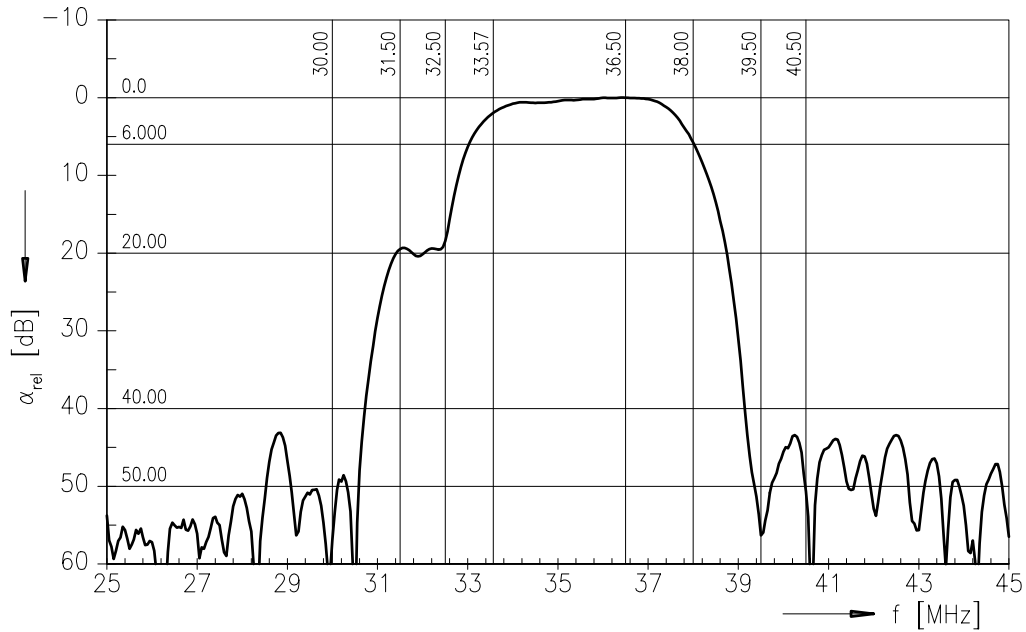
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Data Sheet

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





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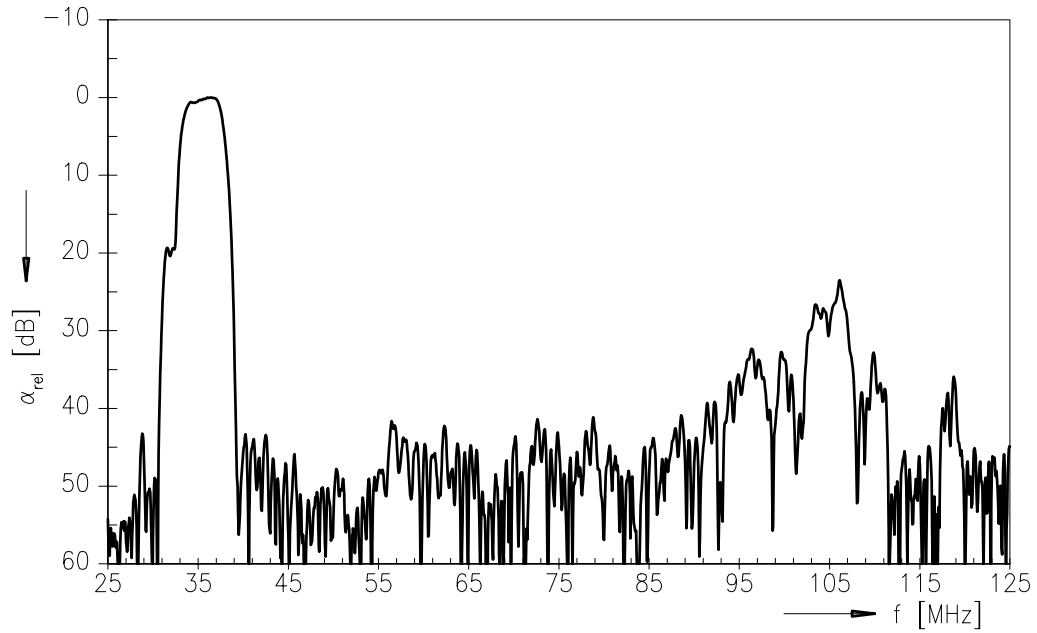
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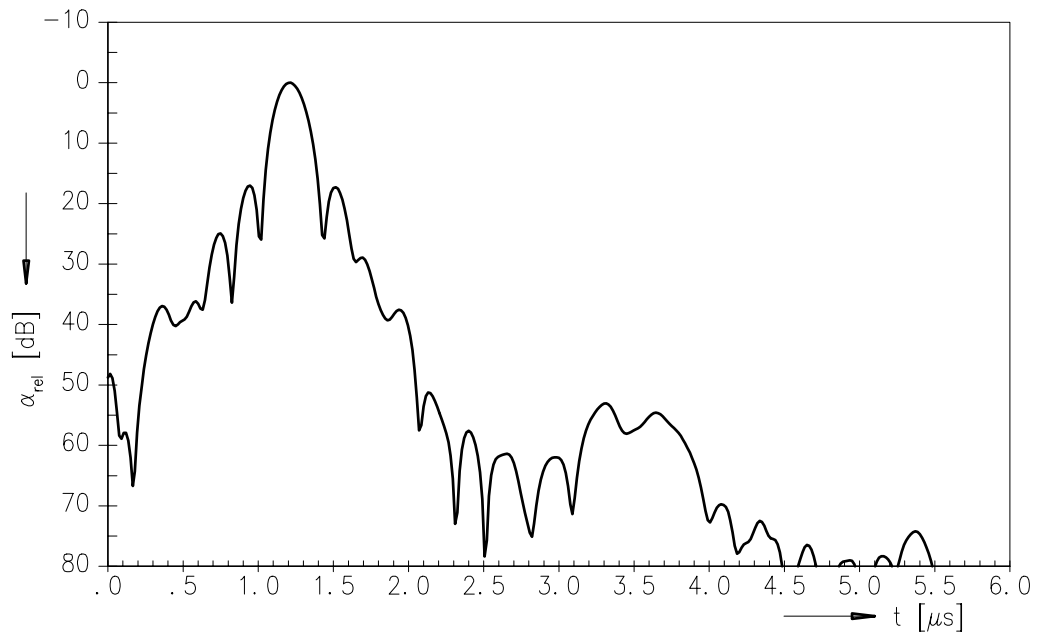
38,00 MHz

Data Sheet

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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**Published by EPCOS AG**

**Surface Acoustic Wave Components Division, SAW CE MM PD**

**P.O. Box 80 17 09, D-81617 München**

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