



Siemens Matsushita Components

## SAW Components IF Filter for Quasi/Split Sound Applications

**K3264 K**  
**38,00 MHz**

Data Sheet  
Standard

Plastic package **DIP10K**

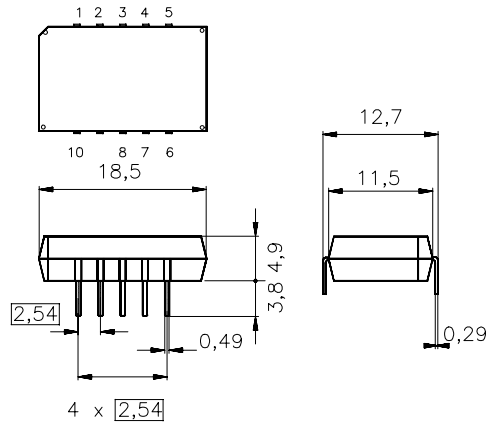
- D/K

### Features

- TV IF filter for quasi/split sound applications (separate picture and sound channel)
- Picture channel with Nyquist slope and sound suppression
- Group delay predistortion
- Sound channel with pass bands for picture carrier at 38,00 MHz and sound carriers at 31,50 MHz and 32,50 MHz

### Terminals

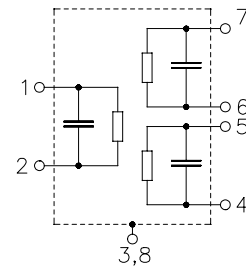
- Tinned CuFe alloy



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
K3264 K	B39380-K3264-K100	C61157-A2-A3	F61074-V8068-Z000

### Maximum ratings

Parameter	Symbol	Value	Unit	Notes
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 of picture channel**

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

		min.	typ.	max.	
<b>Insertion attenuation</b>	$\alpha$				
Reference level for the following data	36,50 MHz	16,7	18,2	19,7	dB
<b>Relative attenuation</b>	$\alpha_{\text{rel}}$				
Picture carrier	38,00 MHz	5,2	6,2	7,2	dB
Color carrier	33,57 MHz	-0,4	0,6	1,6	dB
	33,20 MHz	2,2	3,2	4,2	dB
Sound carrier	32,50 MHz	20,0	35,0	—	dB
	31,50 MHz	20,0	39,0	—	dB
Adjacent picture carrier	30,00 MHz	42,0	47,0	—	dB
Adjacent sound carrier	39,50 MHz	38,0	50,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz	36,0	40,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz	32,0	35,0	—	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)		42,0	52,0	—	dB
<b>Feedthrough signal suppression</b>					
1,2 $\mu\text{s}$ ... 1,0 $\mu\text{s}$ before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		—	56,0	—	dB
<b>Group delay predistortion</b>	$\Delta\tau$				
(reference frequency 38,00 MHz)					
	35,20 MHz	—	-75	—	ns
	33,57 MHz	—	-15	—	ns
<b>Impedance at 36,50 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	2,1 $\parallel$ 18,8	—	k $\Omega$ $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	3,6 $\parallel$ 2,7	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K



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 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	38,00 MHz	18,7	20,3	21,8	dB
<b>Relative attenuation</b>					
	$\alpha_{\text{rel}}$				
Sound carrier	31,50 MHz	-1,6	-0,6	0,4	dB
	32,50 MHz	-0,8	0,2	1,2	dB
Color carrier	33,57 MHz	18,0	24,0	—	dB
Adjacent picture carrier	30,00 MHz	36,0	41,0	—	dB
Adjacent sound carrier	39,50 MHz	30,0	38,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz	30,0	36,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz	24,0	31,0	—	dB
<b>Impedance at 38,00 MHz</b>					
	Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$	—	4,6 $\parallel$ 3,2	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>					
	$TC_f$	—	-72	—	ppm/K



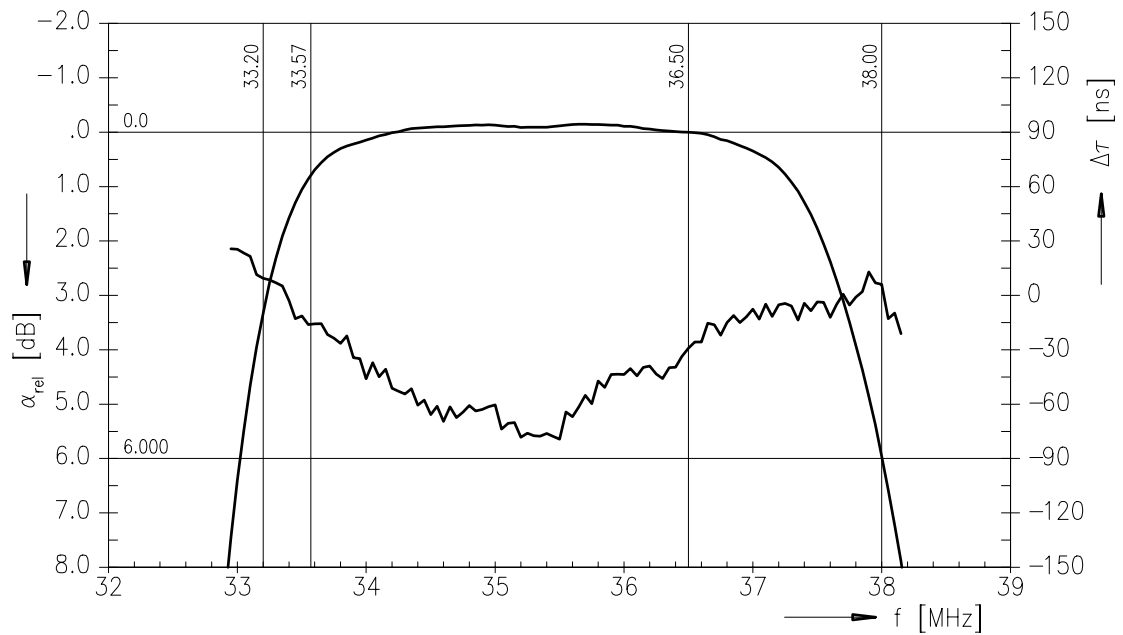
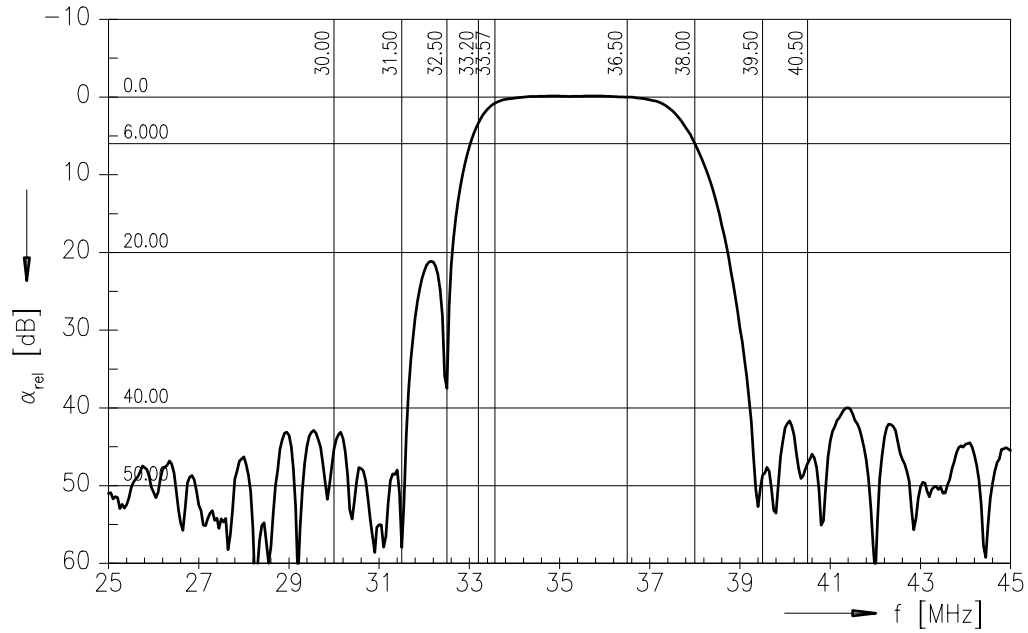
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**Frequency response of picture channel**



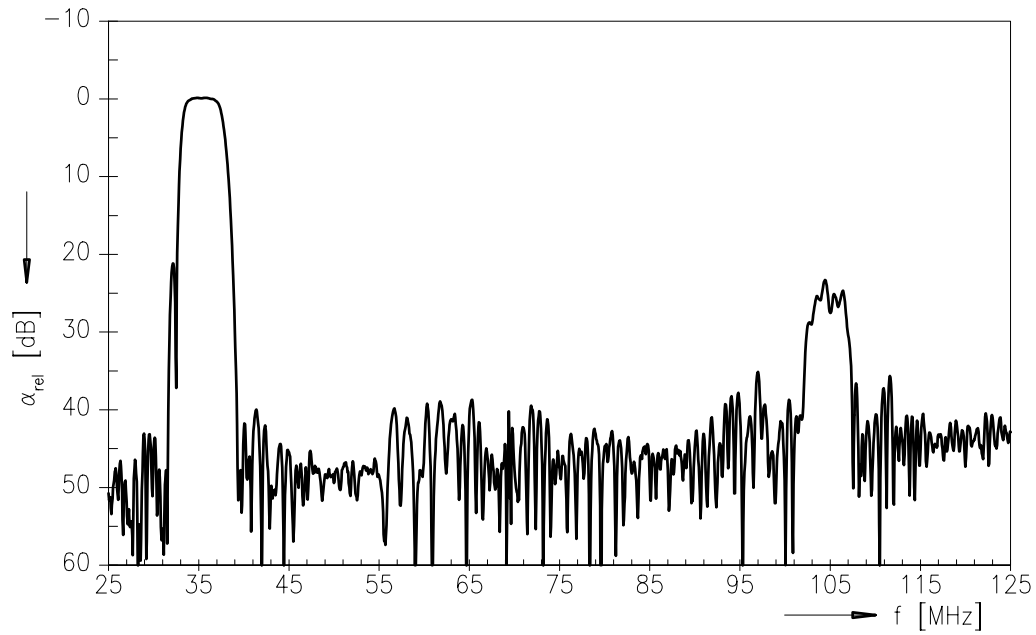


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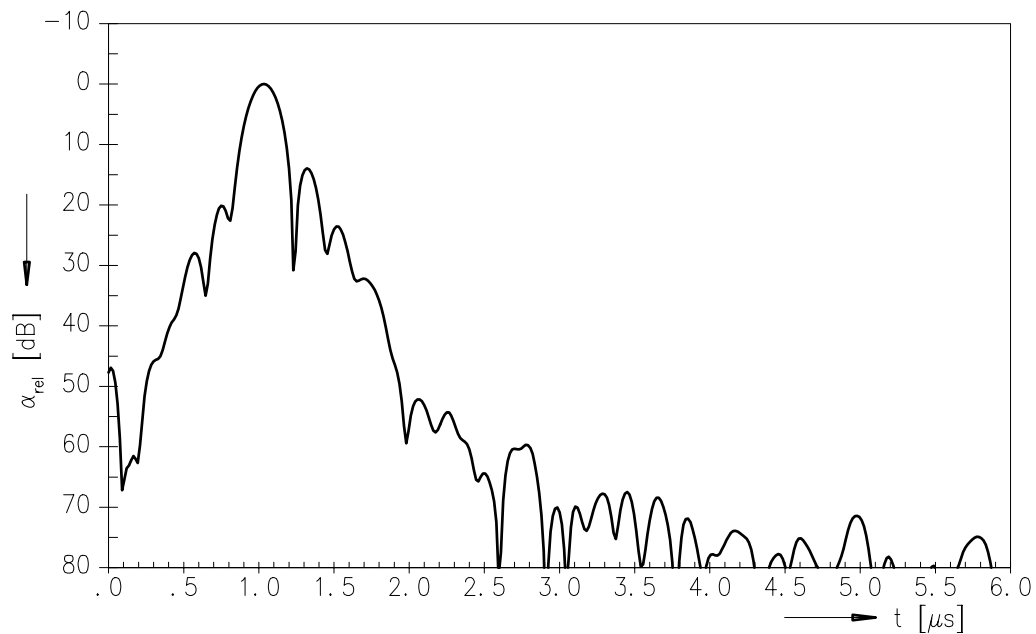
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## Data Sheet

### Frequency response of picture channel



### Time domain response of picture channel





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### Frequency response of sound channel

