



# SAW Components

Data Sheet K 2959 M

Data Sheet





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K 2959 M

### IF Filter for Intercarrier Applications

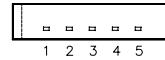
38,00 MHz

#### Data Sheet

#### Standard

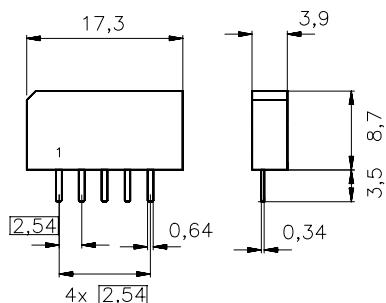
- B/G
- D/K

Plastic package SIP5K



#### Features

- TV IF filter with Nyquist slope and sound shelf
- Broad sound shelf for sound carriers at 31,50 MHz and 32,50 MHz
- High color carrier level
- Constant group delay



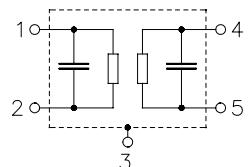
#### Terminals

- Tinned CuFe alloy

Dimensions in mm, approx. weight 1,0 g

#### Pin configuration

1	Input
2	Input - ground
3	Chip carrier - ground
4	Output
5	Output



Type	Ordering code	Marking and package according to	Packing according to
K 2959 M	B39380-K2959-M100	C61157-A1-A15	F61074-V8067-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



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<b>Characteristics</b>							
Reference temperature:		$T_A = 25^\circ\text{C}$					
Terminating source impedance:		$Z_S = 50 \Omega$					
Terminating load impedance:		$Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$					
Insertion attenuation	$\alpha$	min.	typ.	max.			
Reference level for the following data	36,50 MHz	16,5	18,0	19,5			
Relative attenuation	$\alpha_{\text{rel}}$						
Picture carrier	38,00 MHz	4,1	5,1	6,1			
Color carrier	33,57 MHz	0,0	1,0	2,0			
Sound carrier	31,50 MHz	17,9	19,4	—			
	32,50 MHz	15,5	17,0	18,5			
Adjacent picture carrier	30,00 MHz	46,0	55,0	—			
	31,00 MHz	40,0	56,0	—			
Adjacent sound carrier	39,50 MHz	42,0	52,0	—			
	40,50 MHz	43,0	54,0	—			
Lower sidelobe	25,00 ... 30,00 MHz	40,0	46,0	—			
Upper sidelobe	39,50 ... 45,00 MHz	35,0	41,0	—			
Reflected wave signal suppression							
1,1 $\mu\text{s}$ ... 6,0 $\mu\text{s}$ after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		42,0	52,0	—			
Feedthrough signal suppression							
1,1 $\mu\text{s}$ ... 1,0 $\mu\text{s}$ before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		50,0	56,0	—			
Group delay ripple (p-p)	$\Delta\tau$	—	30	—			
Impedance at 36,50 MHz							
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	3,0 $\parallel$ 10,8	—			
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	3,6 $\parallel$ 2,7	—			
Temperature coefficient of frequency	$TC_f$	—	-72	—			
			ppm/K				



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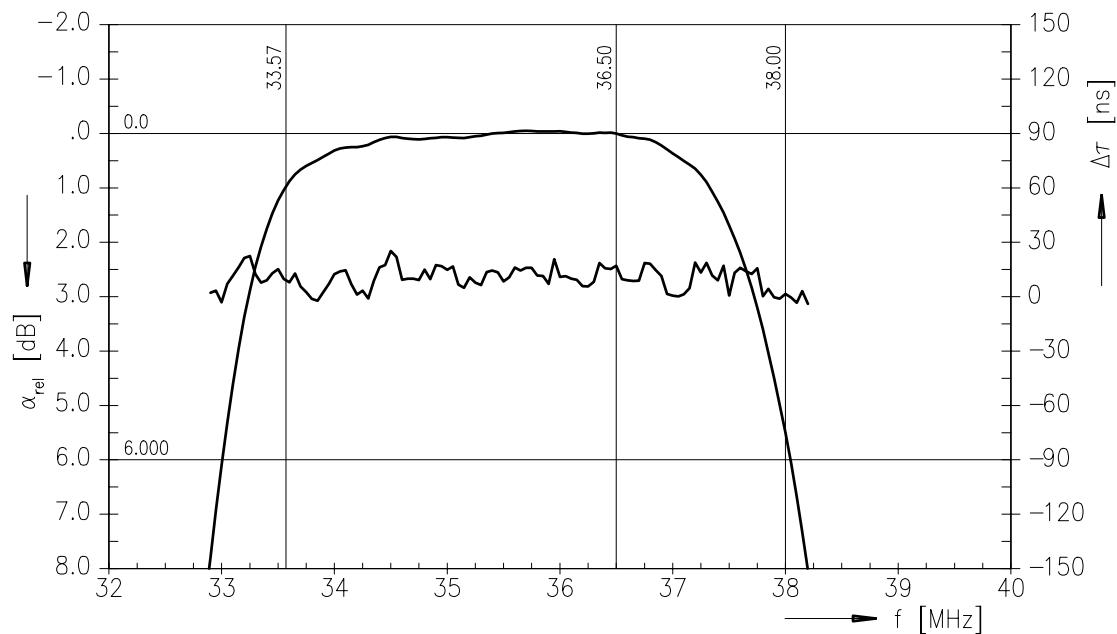
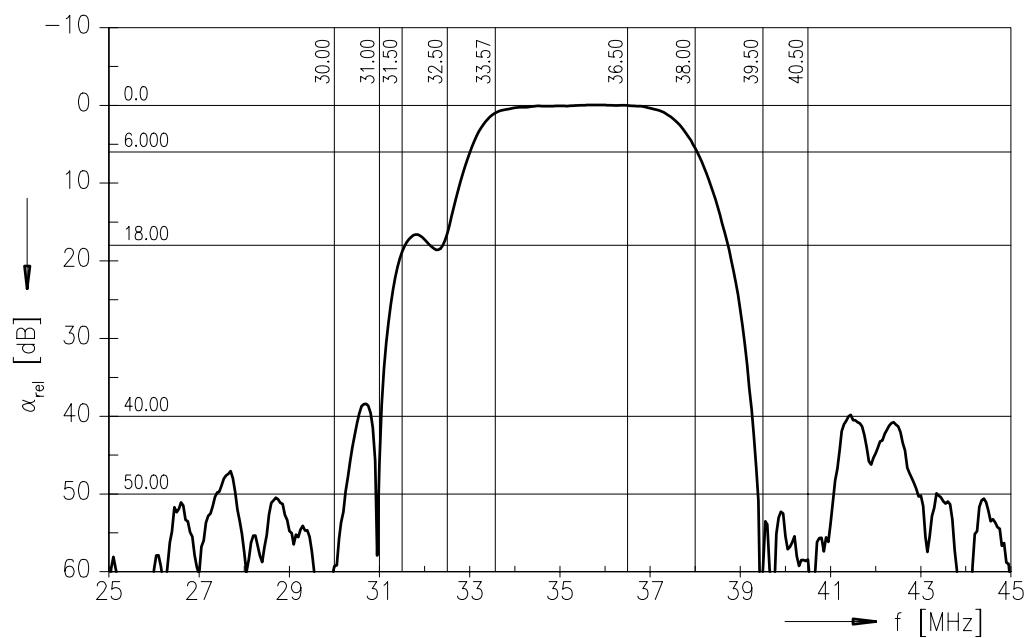
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Frequency response





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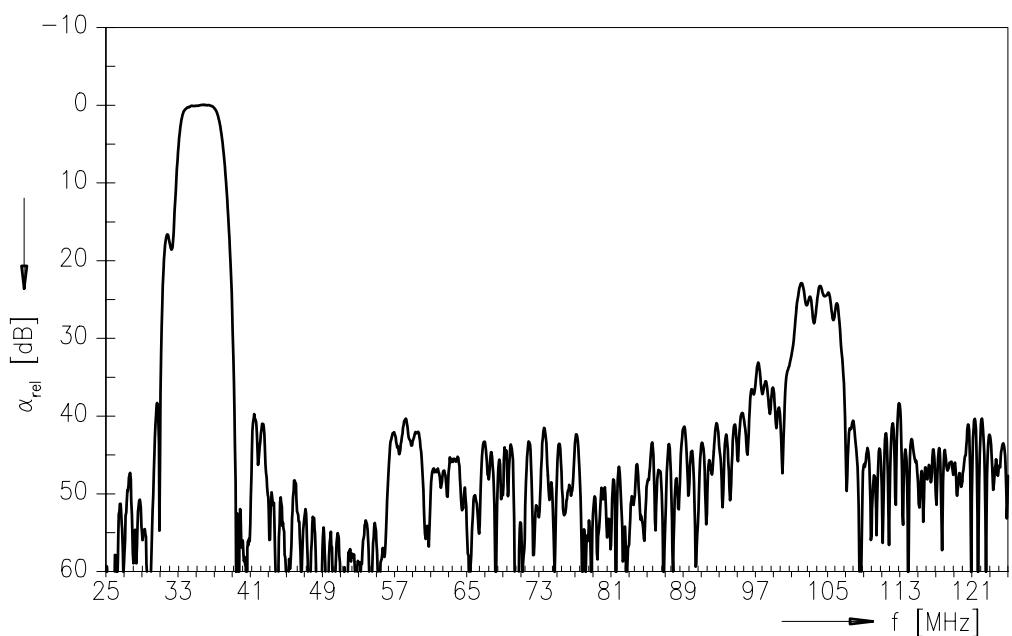
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**IF Filter for Intercarrier Applications**

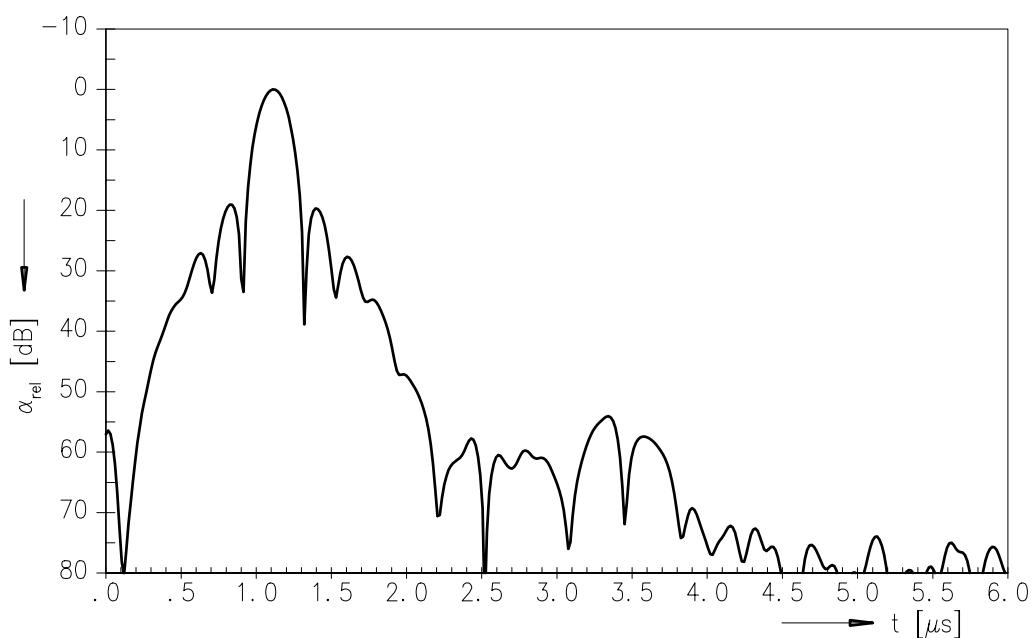
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### **Frequency response**



### **Time domain response**





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