



Siemens Matsushita Components

## SAW Components IF Filter for Intercarrier Applications

**K 2967 M**  
**38,90 MHz**

### Data Sheet

#### Standard

Plastic package **SIP5K**

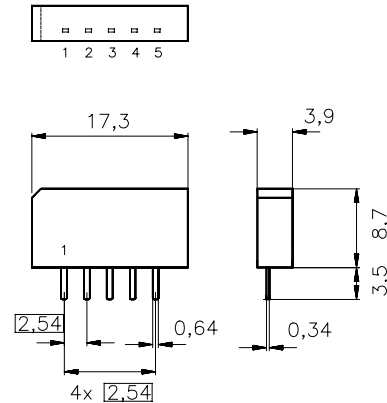
- B/G
- D/K

#### Features

- TV IF filter with Nyquist slope and sound shelf
- Broad sound shelf for sound carriers at 32,40 MHz and 33,40 MHz
- Group delay predistortion

#### Terminals

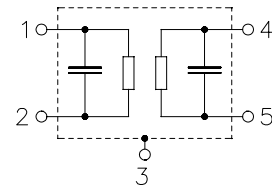
- Tinned CuFe alloy



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	Packing according to
K 2967 M	B39389-K2967-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	$V_{DC}$	12	V	between any terminals
AC voltage	$V_{pp}$	10	V	between any terminals



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**Characteristics**

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

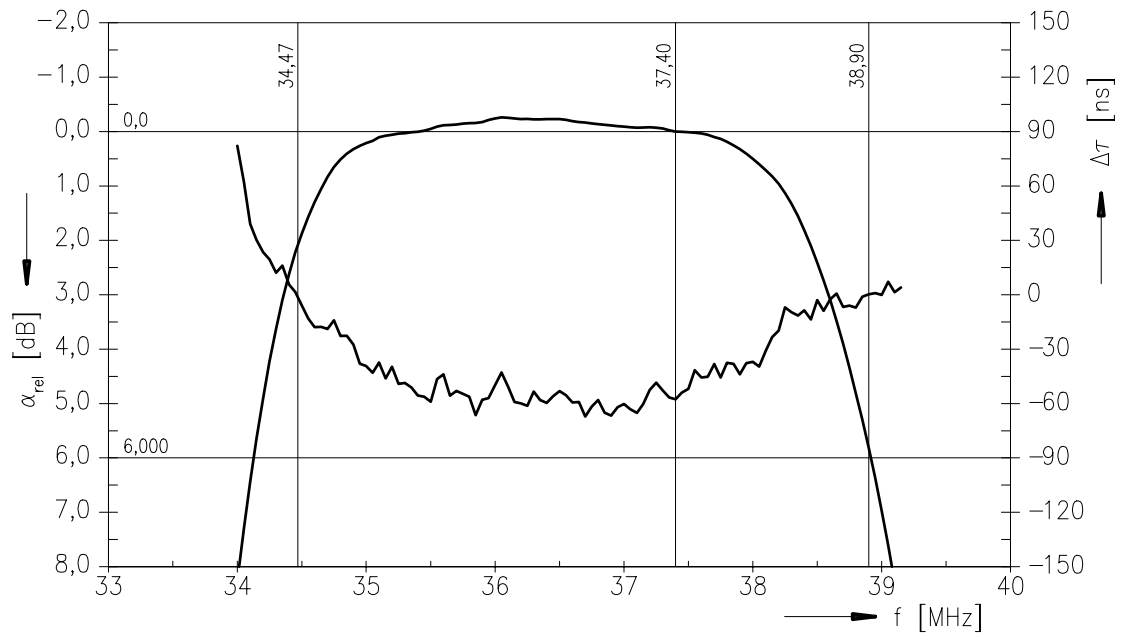
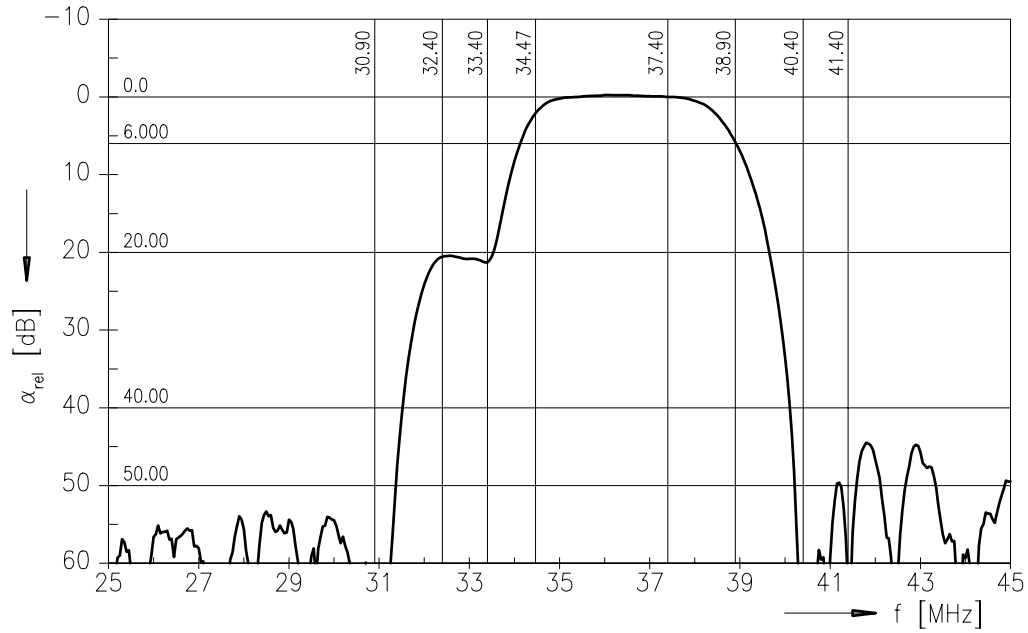
		min.	typ.	max.	
<b>Insertion attenuation</b>					
	$\alpha$				
Reference level for the following data	37,40 MHz	15,5	17,0	18,5	dB
<b>Relative attenuation</b>					
	$\alpha_{rel}$				
Picture carrier	38,90 MHz	4,9	5,9	6,9	dB
Color carrier	34,47 MHz	1,0	2,0	3,0	dB
Sound carrier	32,40 MHz	18,8	20,3	21,8	dB
	33,40 MHz	19,6	21,1	—	dB
Adjacent picture carrier	30,90 MHz	50,0	66,0	—	dB
Adjacent sound carrier	40,40 MHz	44,0	57,0	—	dB
	41,40 MHz	42,0	54,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	44,0	52,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	38,0	46,0	—	dB
<b>Reflected wave signal suppression</b>					
1,2 ... 6,0 $\mu$ s after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz )		42,0	52,0	—	dB
<b>Feedthrough signal suppression</b>					
1,2 ... 1,1 $\mu$ s before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz )		50,0	56,0	—	dB
<b>Group delay predistortion</b>					
(reference frequency 38,90 MHz)					
	$\Delta\tau$				
	36,90 MHz	—	-65	—	ns
	34,47 MHz	—	0	—	ns
<b>Impedance at 37,40 MHz</b>					
	Input: $Z_{IN} = R_{IN} \parallel C_{IN}$	—	2,0 $\parallel$ 10,2	—	k $\Omega$ $\parallel$ pF
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	3,1 $\parallel$ 3,7	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>					
	$TC_f$	—	-72	—	ppm/K



# SAW Components IF Filter for Intercarrier Applications

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## Data Sheet Frequency response



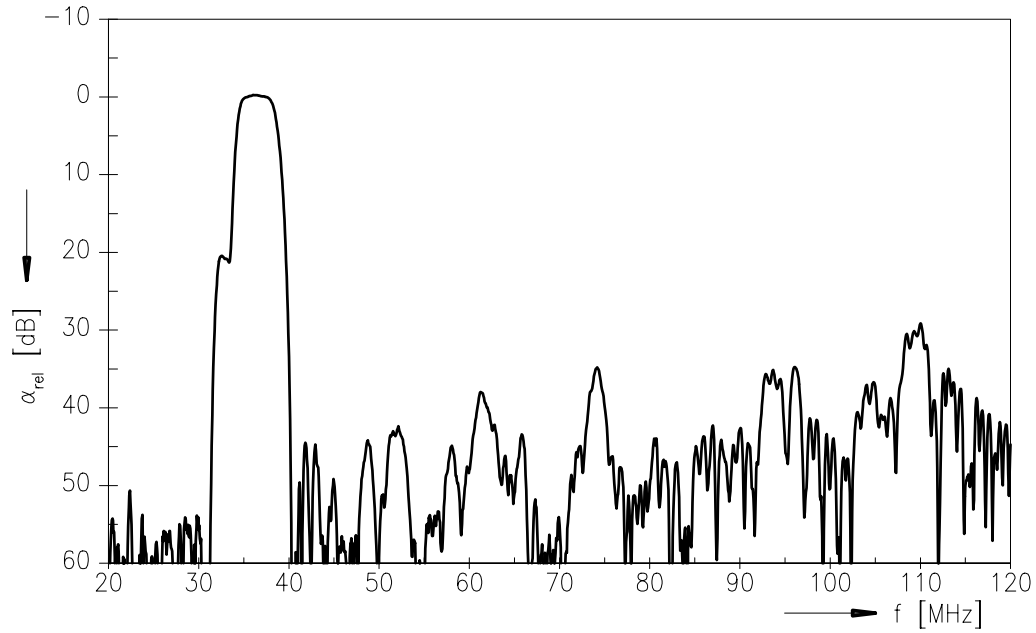


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**Data Sheet**

**Frequency response**



**Time domain response**

