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# SAW multimedia filters

## Series/Type: **K2966M**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39389K2966M100		2011-01-14	2011-09-30	2012-09-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).

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**SAW Components**
**K 2966 M**
**IF Filter for Intercarrier Applications**
**38,90 MHz**
**Data Sheet**
**Standard**

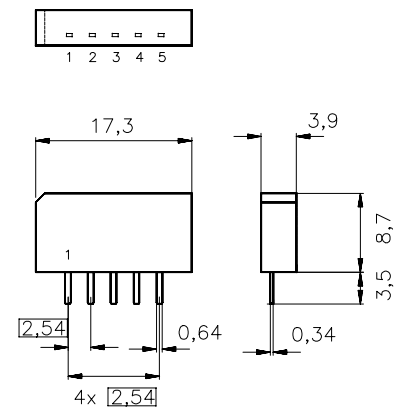
- B/G
- D/K

**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**

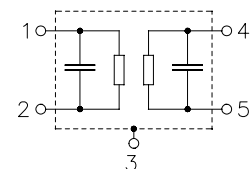
- Tinned CuFe alloy

 Plastic package **SIP5K**


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 2966 M	B39389-K2966-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

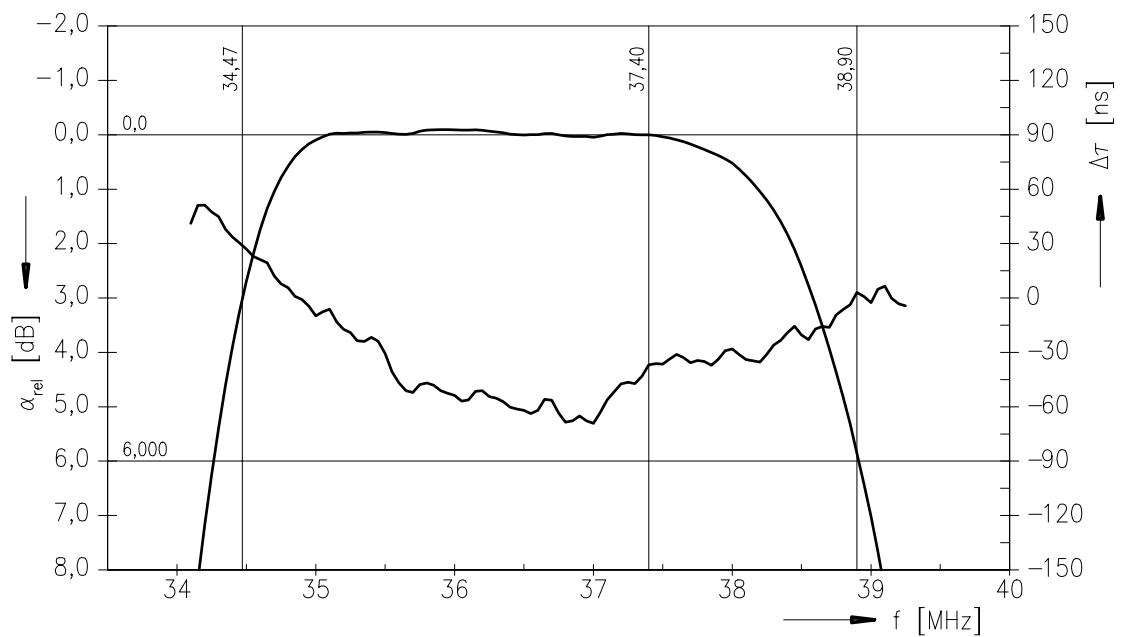
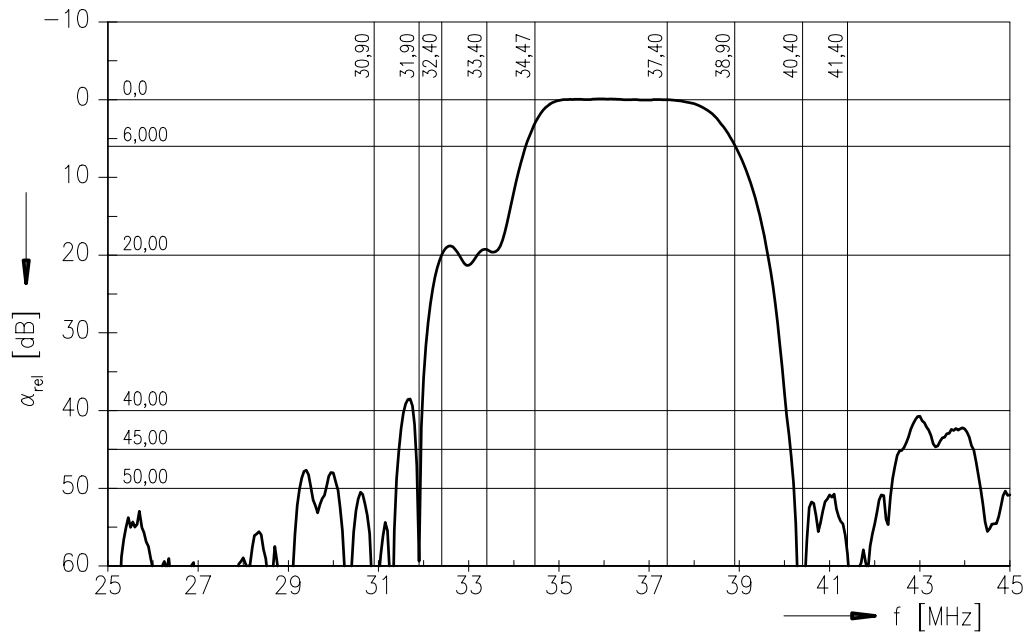
**SAW Components**
**K 2966 M**
**IF Filter for Intercarrier Applications**
**38,90 MHz**
**Data Sheet**
**Characteristics**

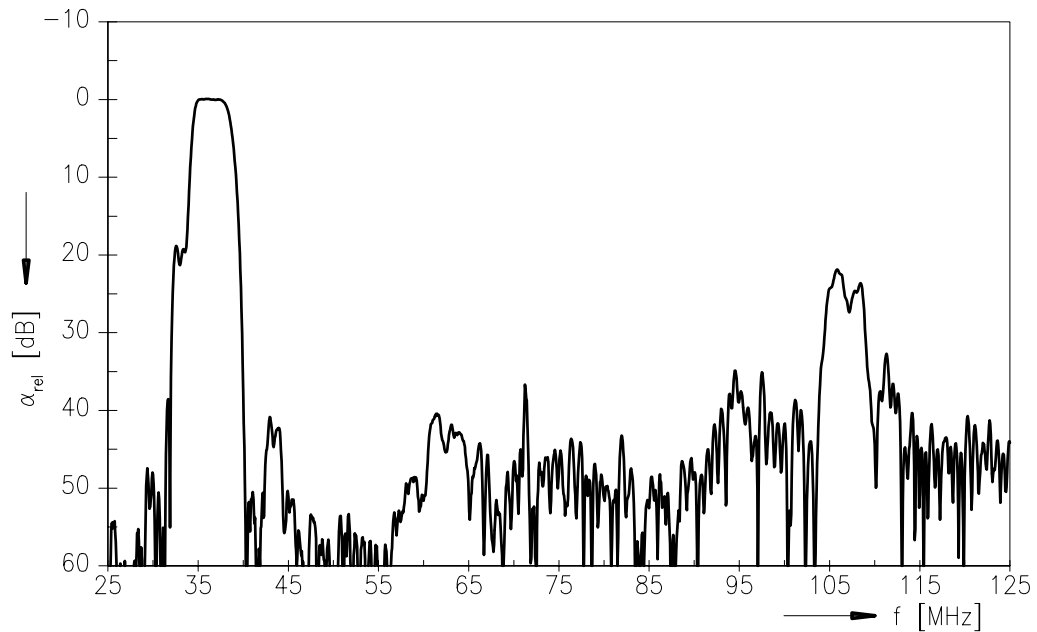
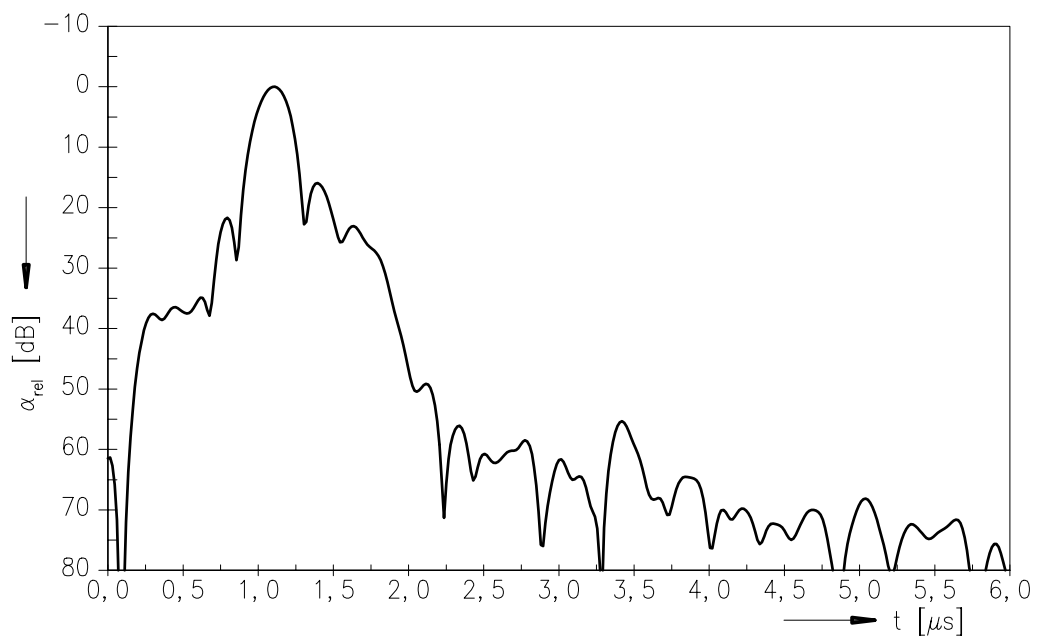
Reference temperature:  $T_A = 25\text{ °C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		min.	typ.	max.	
<b>Insertion attenuation</b>					
	$\alpha$				
Reference level for the following data	37,40 MHz	15,7	17,2	18,7	dB
<b>Relative attenuation</b>					
	$\alpha_{rel}$				
Picture carrier	38,90 MHz	4,6	5,6	6,6	dB
Color carrier	34,47 MHz	2,1	3,1	4,1	dB
Sound carrier	32,40 MHz	18,9	20,4	21,9	dB
	33,40 MHz	17,8	19,3	—	dB
Adjacent picture carrier	30,90 MHz	48,0	62,0	—	dB
	31,90 MHz	40,0	58,0	—	dB
Adjacent sound carrier	40,40 MHz	45,0	58,0	—	dB
	41,40 MHz	44,0	58,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	42,0	48,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	36,0	42,0	—	dB
<b>Reflected wave signal suppression</b>					
1,2 $\mu$ s ... 6,0 $\mu$ s after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		42,0	54,0	—	dB
<b>Feedthrough signal suppression</b>					
1,2 $\mu$ s ... 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>					
	$\Delta\tau$				
(reference frequency 38,90 MHz)					
	36,90 MHz	—	-55	—	ns
	34,47 MHz	—	45	—	ns
<b>Impedance at 37,40 MHz</b>					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	2,2 $\parallel$ 11,9	—	k $\Omega$ $\parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	3,3 $\parallel$ 2,8	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>					
	$TC_f$	—	-72	—	ppm/K

Data Sheet

Frequency response



**Data Sheet**
**Frequency response**

**Time domain response**


**SAW Components****K 2966 M****IF Filter for Intercarrier Applications****38,90 MHz****Data Sheet**

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