



# SAW Components

Data Sheet K 2955 M

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in a light gray, sans-serif font. The letters are tilted and appear to be floating or emerging from a dark, swirling, smoke-like background. The overall effect is dynamic and modern.



## SAW Components

K 2955 M

## IF Filter for Intercarrier Applications

38,90 MHz

### Data Sheet

#### Standard

- B/G
- D/K

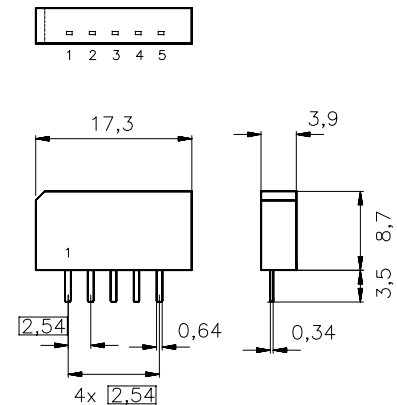
Plastic package **SIP5K**

#### Features

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

#### Terminals

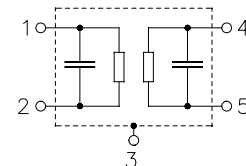
- Tinned CuFe alloy



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 and package according to	Packing according to
K 2955 M	B39389-K2955-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:  $Z_S = 50\text{ }\Omega$   
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	4,7	5,7	6,7	dB
Color carrier	34,47 MHz	2,6	3,6	4,6	dB
Sound carrier	32,40 MHz	18,5	20,0	21,5	dB
	33,40 MHz	19,4	20,4	—	dB
Adjacent picture carrier	30,90 MHz	48,0	66,0	—	dB
Adjacent sound carrier	40,40 MHz	43,0	58,0	—	dB
	41,40 MHz	42,0	53,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	43,0	52,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	38,0	44,0	—	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)					
	36,50 MHz	—	-65	—	ns
	34,47 MHz	—	0	—	ns
<b>Impedance</b> at 37,40 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	2,2 $\parallel$ 10,7	—	k $\Omega$ $\parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	3,1 $\parallel$ 2,8	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b> $TC_f$					
		—	-72	—	ppm/K



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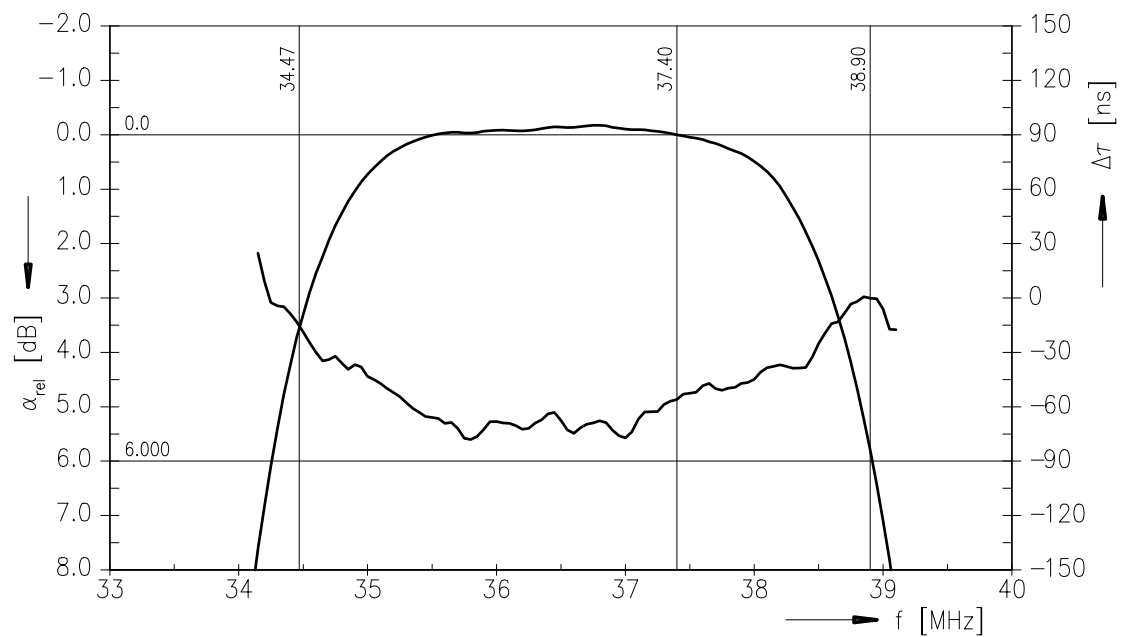
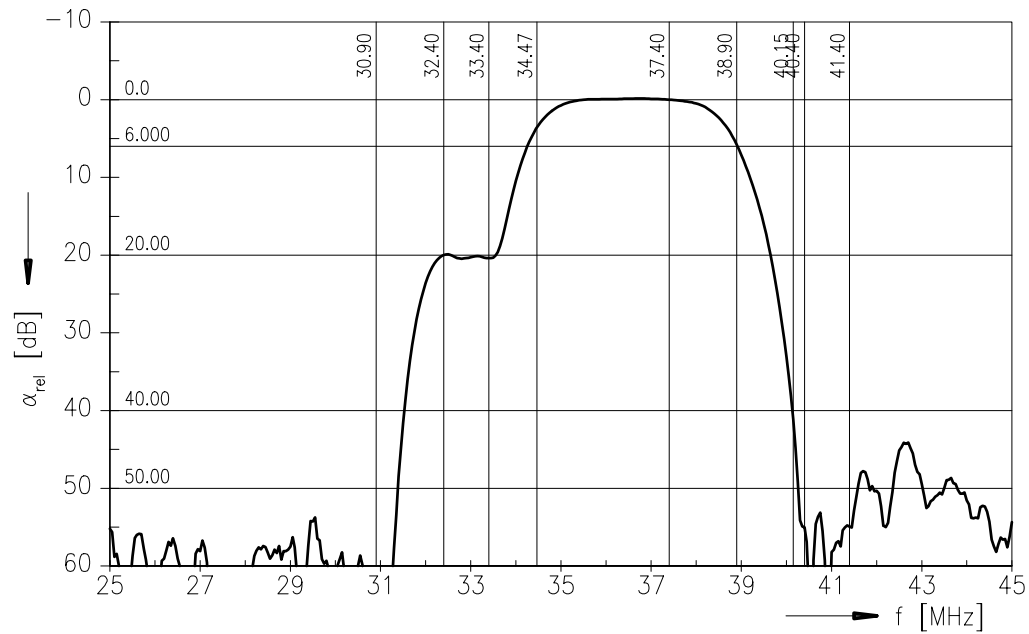
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Data Sheet

Frequency response





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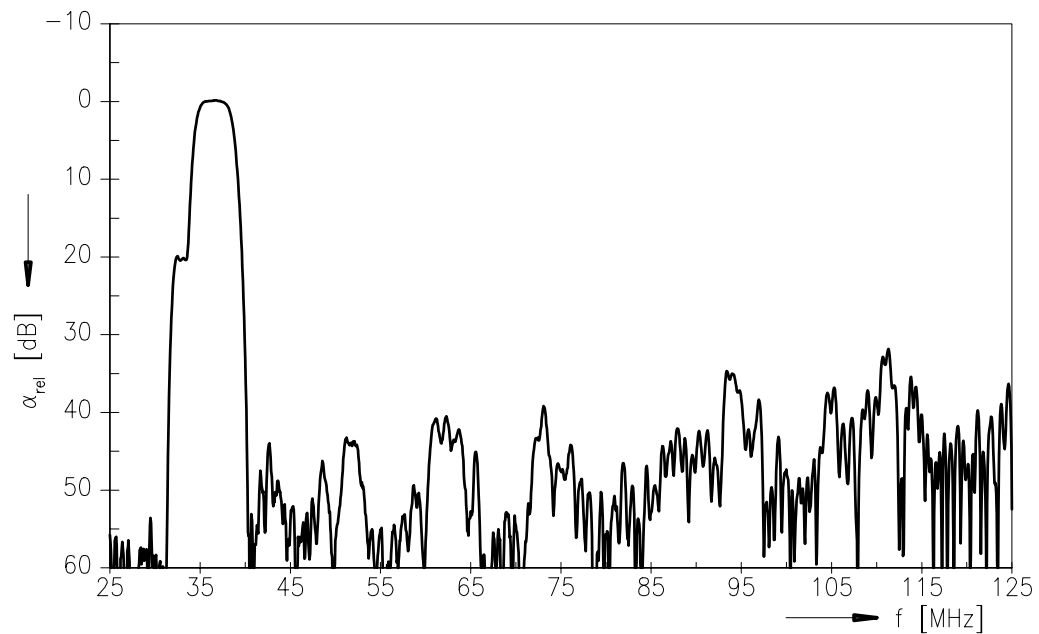
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IF Filter for Intercarrier Applications

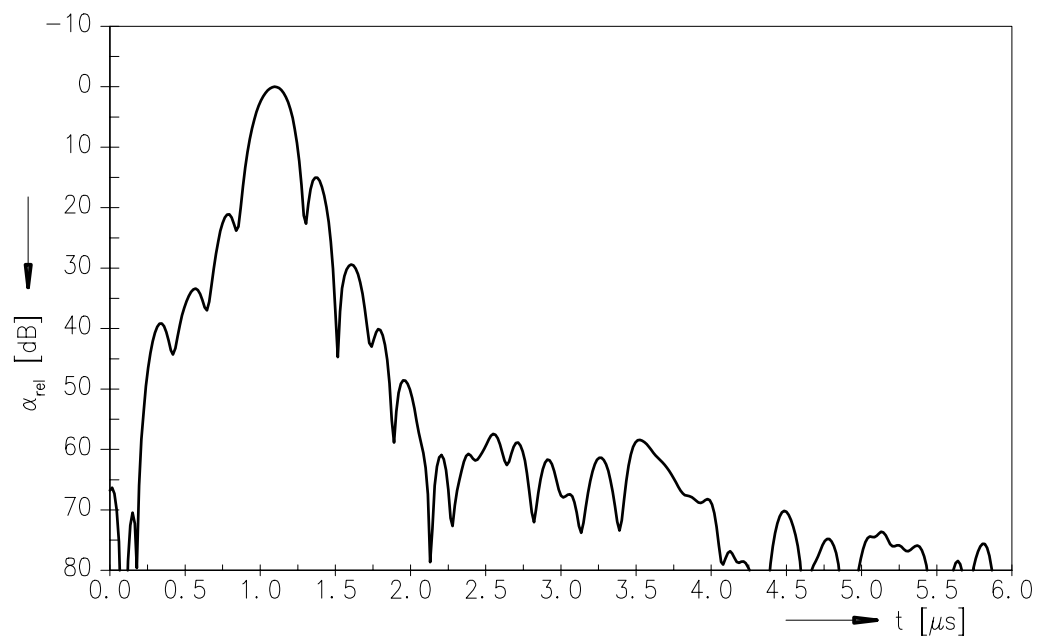
38,90 MHz

## Data Sheet

### Frequency response



### Time domain response





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