



# SAW Components

Data Sheet K 2955 M

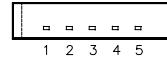
Data Sheet



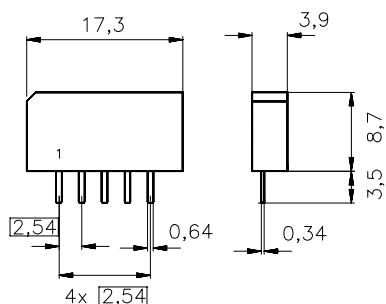
EPCOS

**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

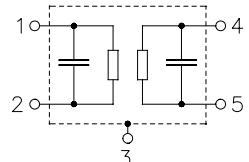

**Terminals**

- 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:  $T_A = 25^\circ\text{C}$   
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	37,40 MHz	15,7	17,2	18,7	dB
<b>Relative attenuation</b>	$\alpha_{\text{rel}}$				
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 $\mu\text{s}$ ... 6,0 $\mu\text{s}$ after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		42,0	54,0	—	dB
<b>Feedthrough signal suppression</b>					
1,2 $\mu\text{s}$ ... 1,1 $\mu\text{s}$ 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 at 37,40 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	2,2 $\parallel$ 10,7	—	$\text{k}\Omega \parallel \text{pF}$
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	3,1 $\parallel$ 2,8	—	$\text{k}\Omega \parallel \text{pF}$
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K



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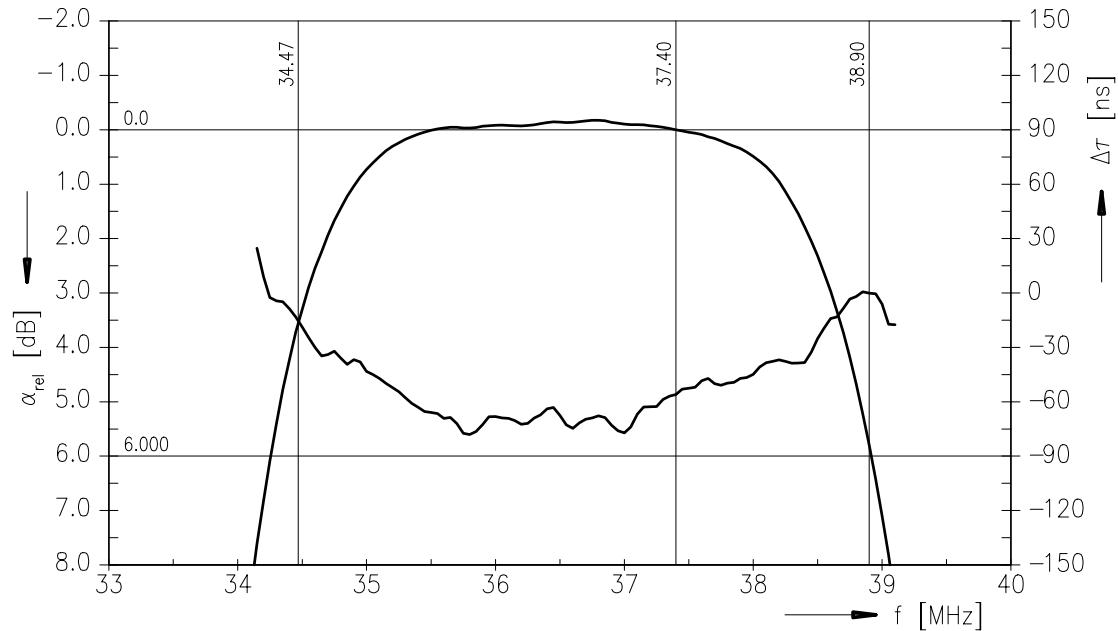
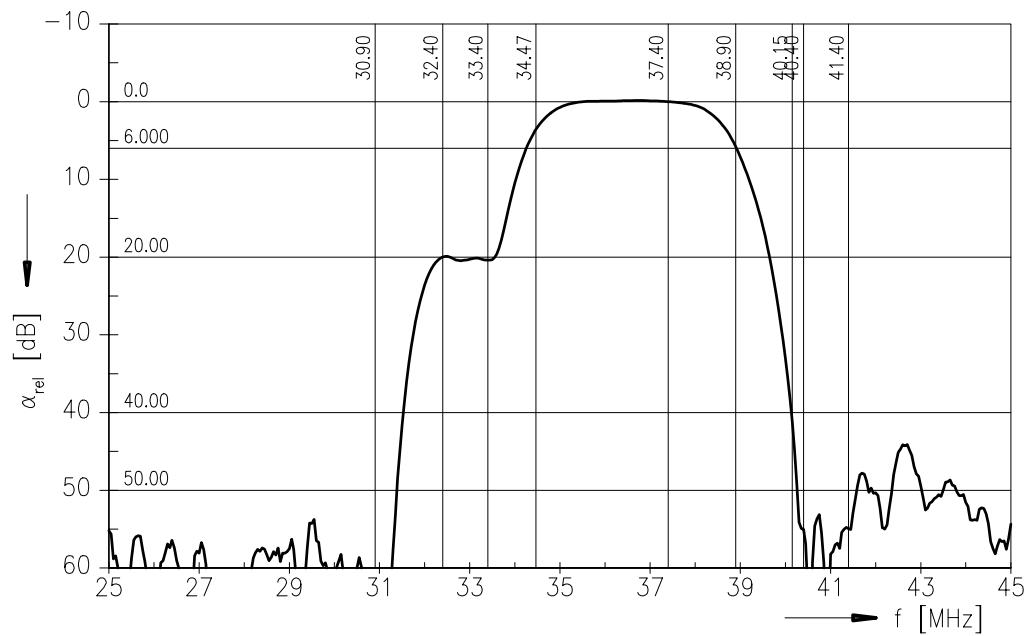
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**Data Sheet**

**Frequency response**





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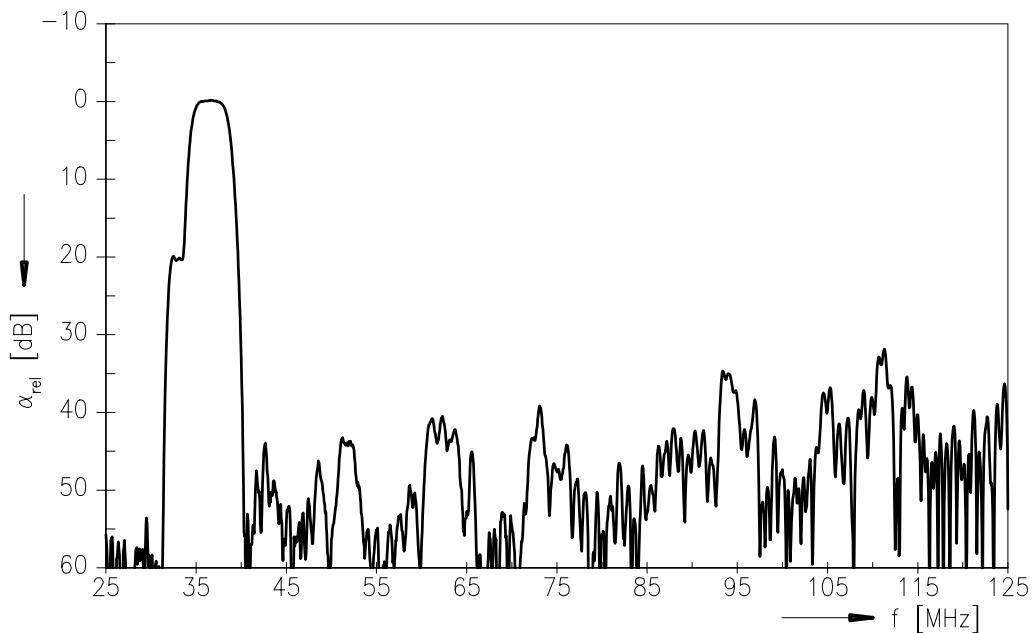
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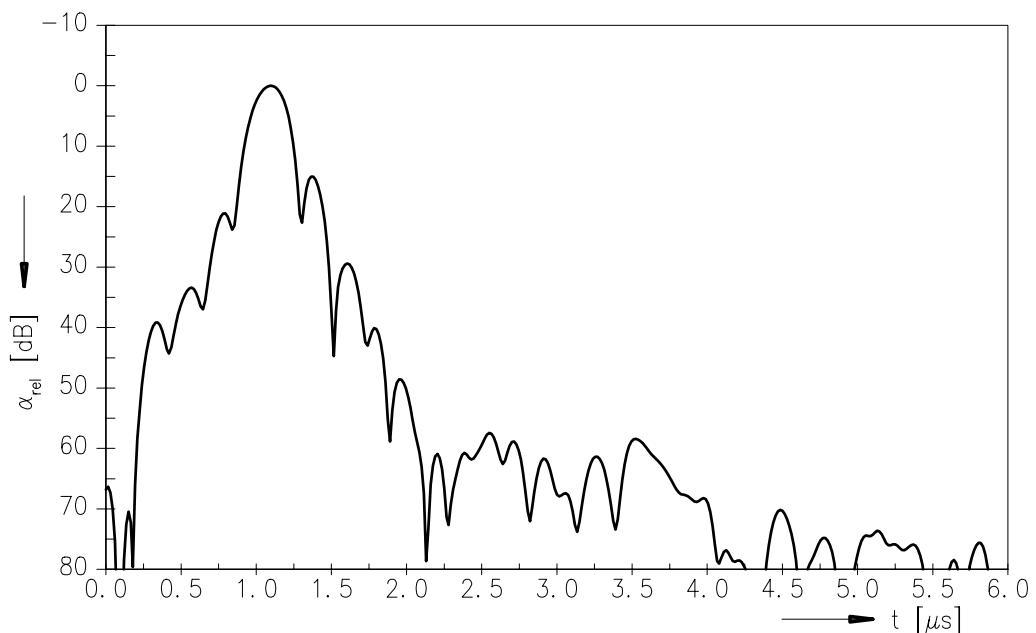
**38,90 MHz**

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**Frequency response**



**Time domain response**





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**Published by EPCOS AG**

**Surface Acoustic Wave Components Division, SAW CE MM PD**

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