



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SAW Components

Data Sheet X 6966 M

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a curved, metallic-looking structure. The background is dark and textured, suggesting a circuit board or a similar technical surface.



SAW Components

X 6966 M

Bandpass Filter

36,125 MHz

Data Sheet

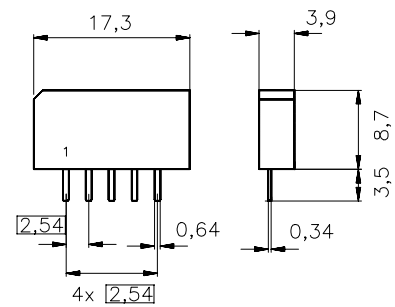
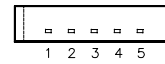
Plastic package **SIP5K**

Features

- IF filter for digital cable TV

Terminals

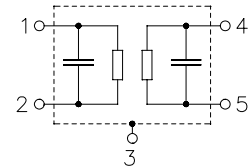
- Tinned CuFe alloy



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
X 6966 M	B39361-X6966-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	X 6966 M
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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.	
Insertion attenuation					
	α				
Reference level for the following data	36,125 MHz	18,8	20,3	21,8	dB
Amplitude ripple					
	$\Delta\alpha$				
	32,65 ... 39,60 MHz	0,0	0,5	1,0	dB
Pass bandwidth					
$\alpha_{rel} \leq 1\text{ dB}$	B_{1dB}	—	7,5	—	MHz
$\alpha_{rel} \leq 3\text{ dB}$	B_{3dB}	—	8,0	—	MHz
$\alpha_{rel} \leq 30\text{ dB}$	B_{30dB}	—	9,4	—	MHz
Relative attenuation					
	α_{rel}				
	32,32 MHz	-0,1	0,9	1,9	dB
	39,93 MHz	0,4	1,4	2,4	dB
	32,13 MHz	1,5	2,7	3,9	dB
	40,13 MHz	2,3	3,5	4,7	dB
	31,25 MHz	37,0	51,0	—	dB
	47,25 MHz	45,0	60,0	—	dB
Lower sidelobe	25,00 ... 31,25 MHz	35,0	41,0	—	dB
Upper sidelobe	40,90 ... 50,00 MHz	32,0	39,0	—	dB
Reflected wave signal suppression					
1,0 μ s ... 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 36,125 MHz)		42,0	52,0	—	dB
Feedthrough signal suppression					
1,2 μ s ... 1,1 μ s before main pulse (test pulse 250 ns, carrier frequency 36,125 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)					
	$\Delta\tau$				
Aperture 62,5 kHz	32,32 ... 39,93 MHz	—	40	—	ns
Impedance at 36,125 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	2,3 \parallel 14,7	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	2,4 \parallel 3,9	—	k Ω \parallel pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



SAW Components

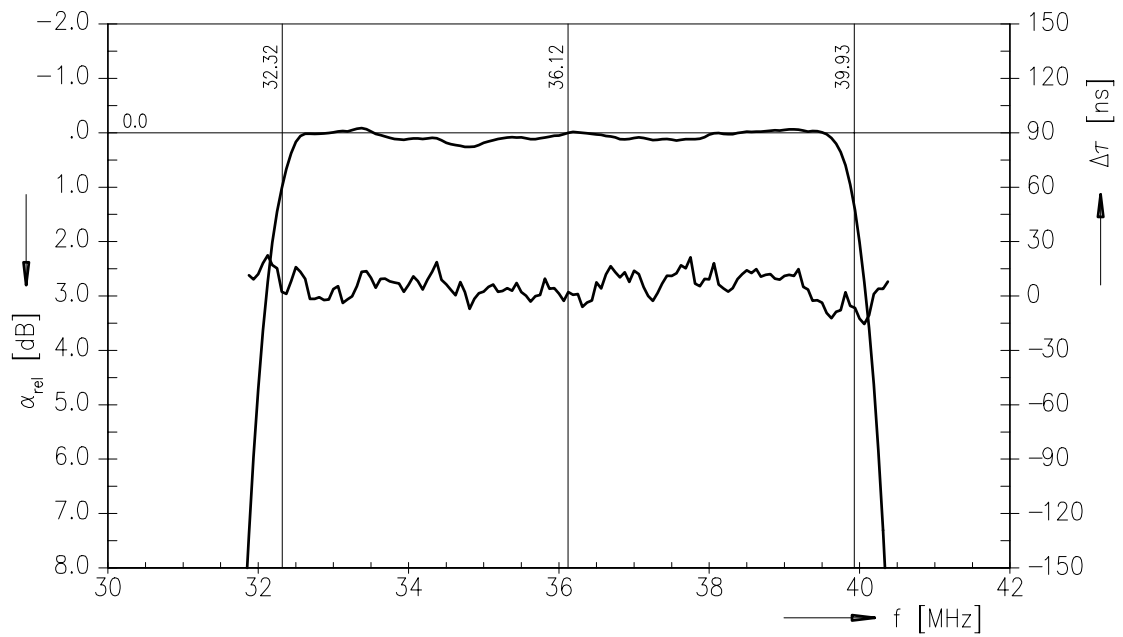
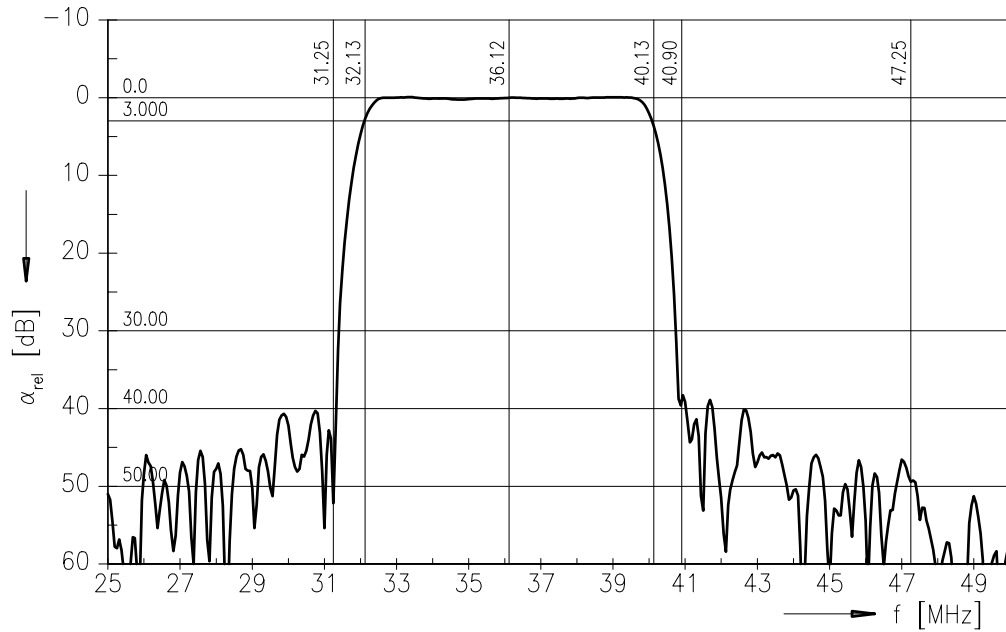
X 6966 M

Bandpass Filter

36,125 MHz

Data Sheet

Frequency response





SAW Components

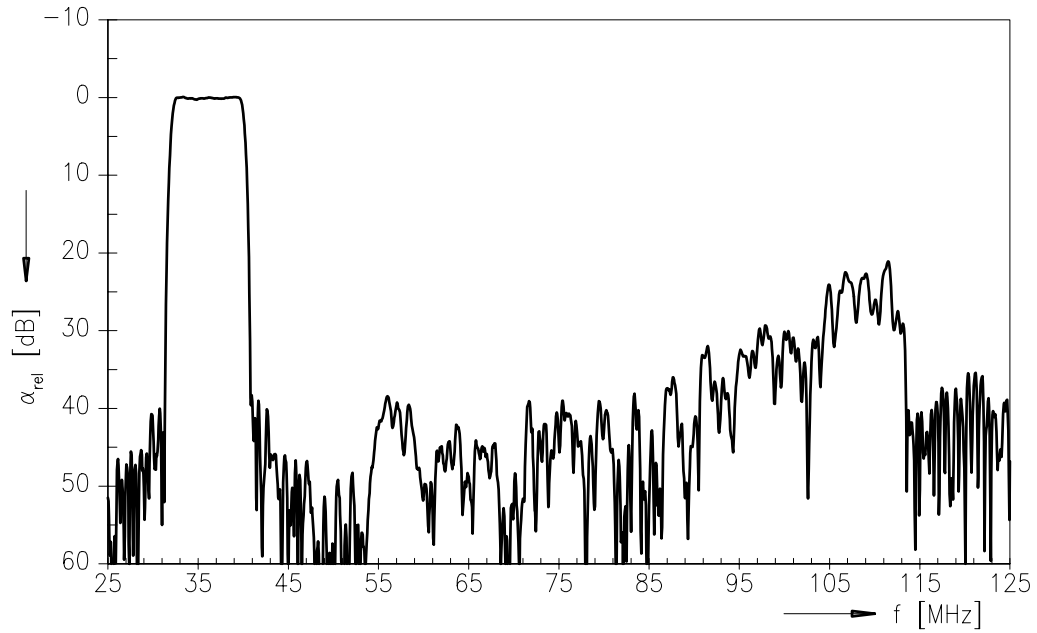
X 6966 M

Bandpass Filter

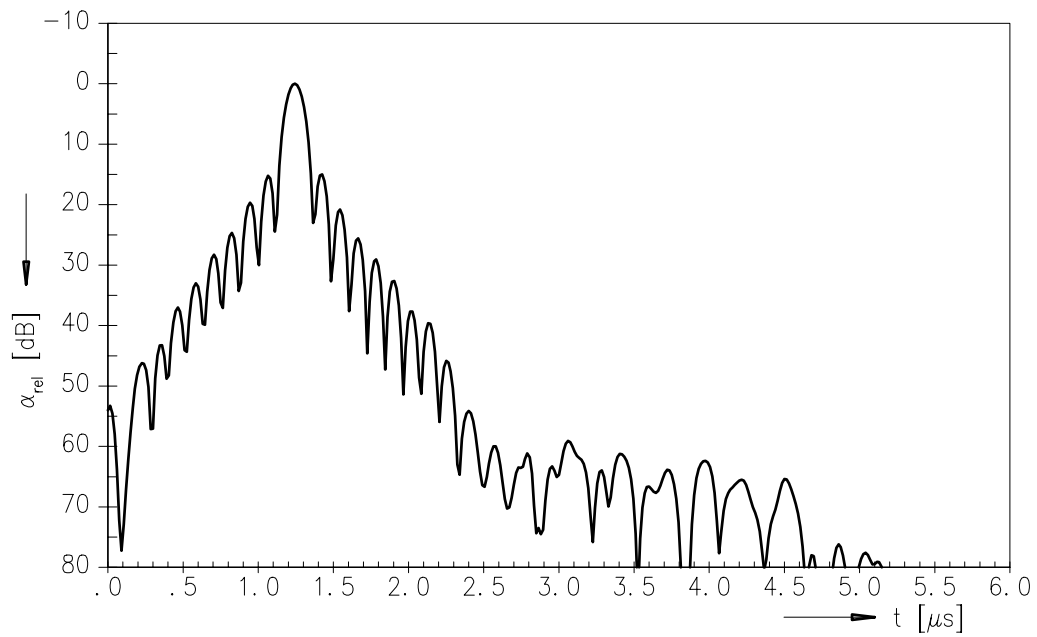
36,125 MHz

Data Sheet

Frequency response



Time domain response





SAW Components

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36,125 MHz

Data Sheet

Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW CE MM PD

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