



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 G 3963 M

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in a light, glowing font. The letters are slightly tilted and appear to be floating or emerging from a dark, textured background that resembles a circuit board or a microscopic view of a component. The overall effect is futuristic and technical.

EPCOS



SAW Components

G 3963 M

IF Filter for Video Applications

38,90 MHz

Data Sheet

Standard

Plastic package **SIP5K**

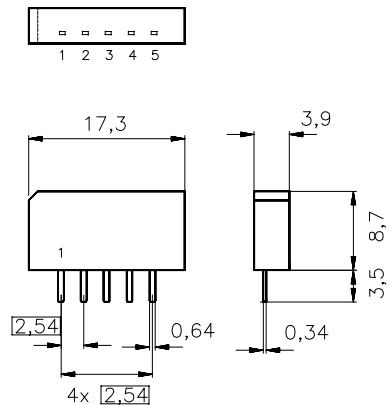
- B/G

Features

- TV IF filter with Nyquist slope and sound suppression
- Constant group delay
- Suitable for CENELEC EN 55020

Terminals

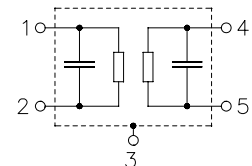
- Tinned CuFe alloy



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
G 3963 M	B39389-G3963-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



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Characteristics

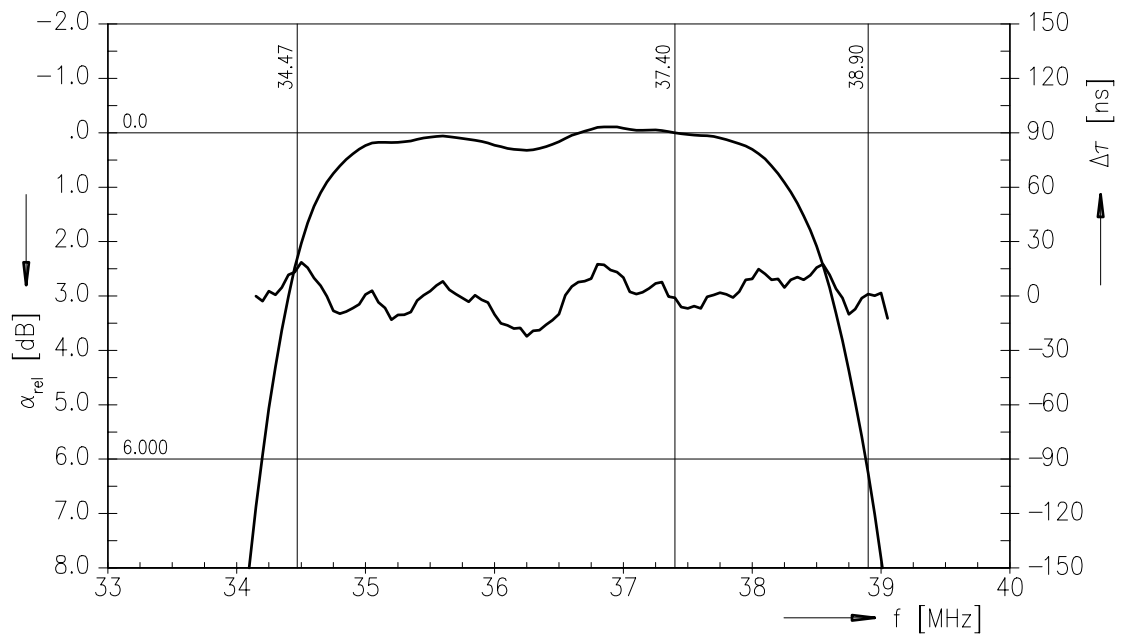
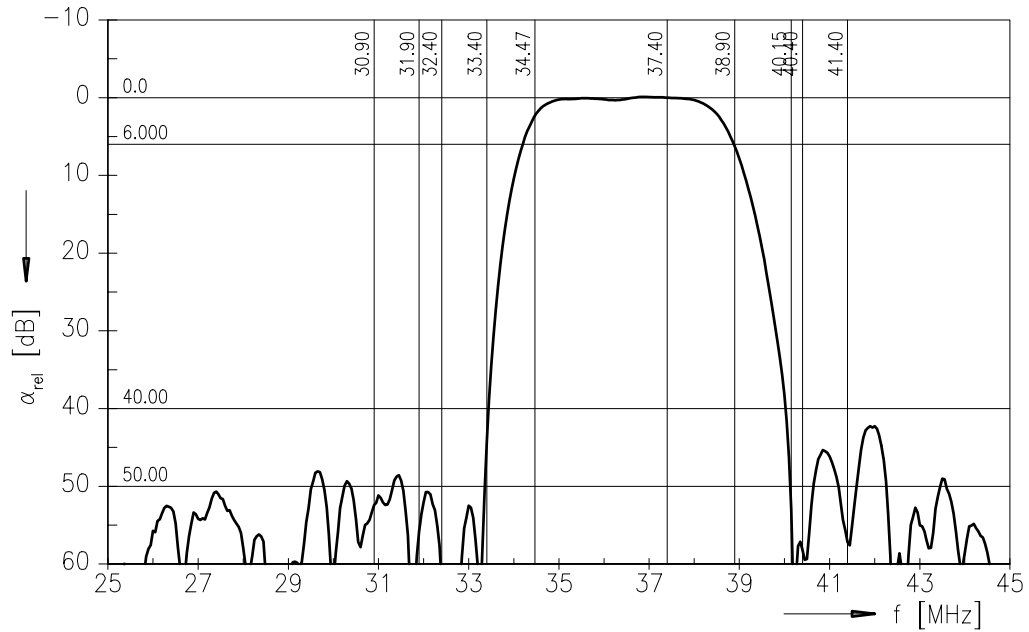
Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	37,40 MHz	13,0	14,5	16,0	dB
Relative attenuation					
	α_{rel}				
Picture carrier	38,90 MHz	4,6	5,6	6,6	dB
Color carrier	34,47 MHz	1,7	2,7	3,7	dB
Sound carrier	33,40 MHz	42,0	56,0	—	dB
	32,40 MHz	46,0	56,0	—	dB
Adjacent picture carrier	UHF 30,90 MHz	46,0	58,0	—	dB
	VHF 31,90 MHz	46,0	57,0	—	dB
	40,15 MHz	38,0	45,0	—	dB
Adjacent sound carrier	VHF 40,40 MHz	45,0	55,0	—	dB
	UHF 41,40 MHz	44,0	51,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz	42,0	47,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	38,0	43,0	—	dB
Reflected wave signal suppression					
1,1 μ s ... 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		44,0	54,0	—	dB
Feedthrough signal suppression					
1,2 μ s ... 1,05 μ s before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	50	—	ns
Impedance at 37,40 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,7 \parallel 14,1	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,3 \parallel 5,5	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



Data Sheet

Frequency response





SAW Components

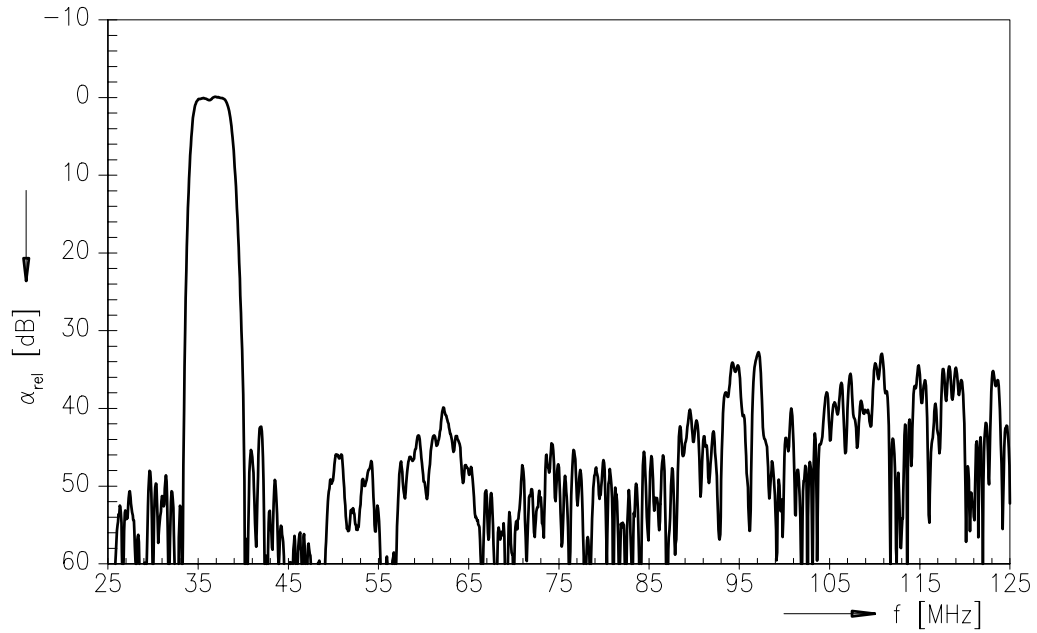
G 3963 M

IF Filter for Video Applications

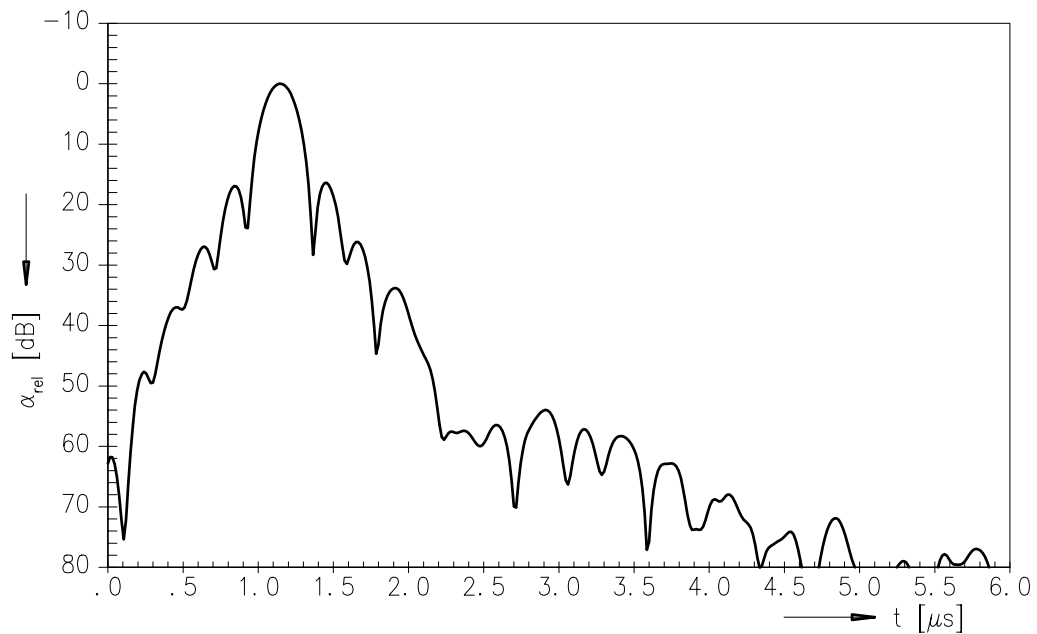
38,90 MHz

Data Sheet

Frequency response



Time domain response





SAW Components

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Data Sheet

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