

# SAW Components

Data Sheet G 3962 M





# SAW Components G 3962 M IF Filter for Video Applications 38,90 MHz

**Data Sheet** 

#### Standard

■ B/G

#### **Features**

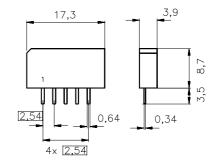
- TV IF filter with Nyquist slope and sound suppression
- Reduced group delay predistortion as compared with standard B/G, half
- Suitable for CENELEC EN 55020

#### **Terminals**

■ Tinned CuFe alloy

## Plastic package SIP5K

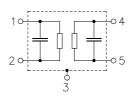




Dimensions in mm, approx. weight 1,0 g

#### Pin configuration

- 1 Input
- 2 Input ground
- 3 Chip carrier ground
- 4 Output
- 5 Output



Туре	Ordering code		Packing according to		
G 3962 M	B39389-G3962-M100	C61157-A1-A15	F61074-V8067-Z000		

#### **Maximum ratings**

Operable temperature range	$T_{A}$	-25/+65	°C	
Storage temperature range	$T_{ m stg}$	-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:  $T_{\rm A} = 25\,^{\circ}{\rm C}$ Terminating source impedance:  $Z_{\rm S} = 50\,\Omega$ Terminating load impedance:  $Z_{\rm L} = 2\,{\rm k}\Omega\,||\,3\,{\rm pF}$ 

					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the	)	37,40	MHz		12,0	13,5	15,0	dB
following data								
Relative attenuation				$\alpha_{\text{rel}}$				
Picture carrier		38,90			4,6	5,6	6,6	dB
Color carrier		34,47			2,0	3,0	4,0	dB
Sound carrier		33,40			42,0	54,0	_	dB
Adjacent picture carrie	r UHF	30,90			46,0	55,0	_	dB
	VHF	31,90			48,0	59,0	_	dB
		32,40	MHz		44,0	50,0	_	dB
		40,15	MHz		37,0	43,0	_	dB
Adjacent sound carrier	· VHF	40,40	MHz		44,0	52,0	_	dB
	UHF	41,40	MHz		42,0	48,0	_	dB
Lower sidelobe	25,00	. 31,90	MHz		40,0	44,0	_	dB
Upper sidelobe	40,40	. 45,00	MHz		36,0	41,0	_	dB
Reflected wave signa	al suppressi	on						
1,1 μs 6,0 μs after r					42,0	50,0	_	dB
(test pulse 250 ns,	nam paice				,0	00,0		
carrier frequency 37,4	0 MHz)							
camer inequency or, i	o <u>_</u> ,							
Feedthrough signal s	suppression	ı						
1,2 μs 1,0 μs before	main pulse				50,0	56,0	_	dB
(test pulse 250 ns,								
carrier frequency 37,4	0 MHz)							
Group delay predisto	ortion			Δτ				
(reference frequency 3				_,				
(rorororros rroquorro) c	, o , o o , i i i i i i i i i i i i i i	36,70	MHz			-85	_	ns
		34,47				15	<u> </u>	ns
Impedance at 37,40 N	ИHz	, .,				. •		1
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$				_	1,6    14,2	_	kΩ    pF	
Output: $Z_{OUT} = R_{OUT}    C_{OUT}$						1,3    5,7	_	kΩ    pF
				TC				
Temperature coefficient of frequency				$TC_{f}$	_	<del>-7</del> 2	_	ppm/K



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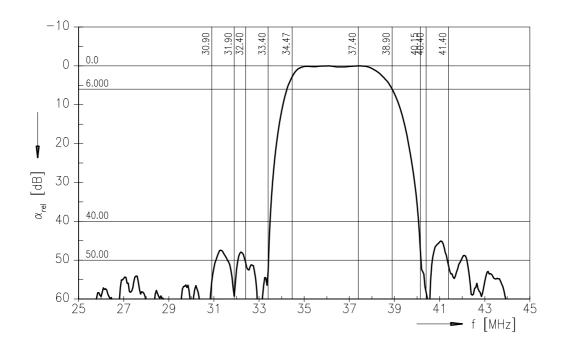
G 3962 M

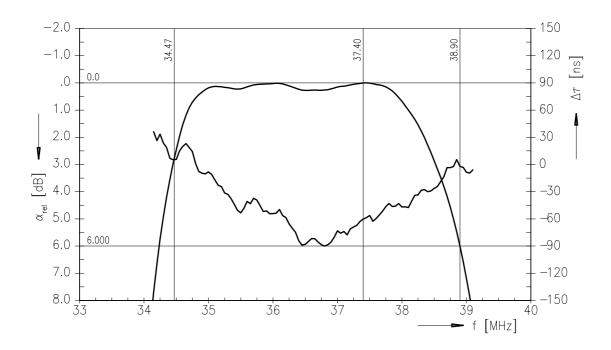
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# Frequency response







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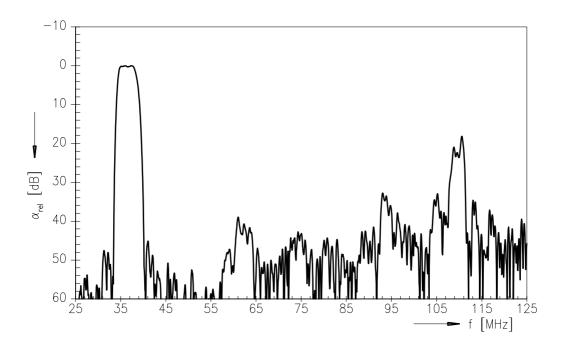
G 3962 M

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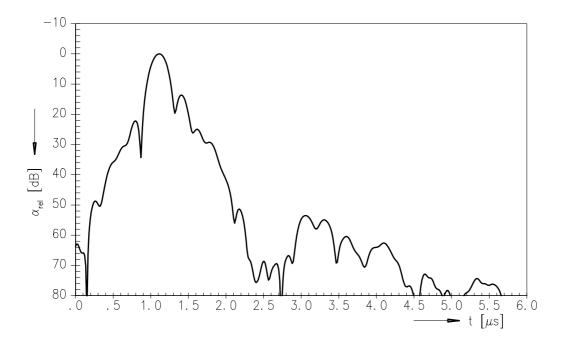
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**Data Sheet** 

# Frequency response



# Time domain response





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