

# 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**

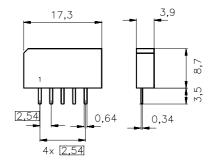
- TV IF filter with Nyquist slope and sound suppression
- Reduced group delay predistortion as compared with standard B/G, half
- Suitable for CENELEC EN 55020

#### **Terminals**

■ Tinned CuFe alloy

#### Plastic package SIP5K

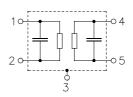




Dimensions in mm, approx. weight 1,0 g

#### 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			$lpha_{ m rel}$				
Picture carrier	38,90	MHz	101	4,6	5,6	6,6	dB
Color carrier	34,47	MHz		2,0	3,0	4,0	dB
Sound carrier	33,40	MHz		42,0	54,0	_	dB
Adjacent picture carrier UHF		MHz		46,0	55,0	_	dB
VHF	31,90			48,0	59,0	_	dB
	32,40			44,0	50,0	_	dB
	40,15			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
	45,00			36,0	41,0	_	dB
Reflected wave signal suppressi	on						
1,1 μs 6,0 μs after main pulse				42,0	50,0	_	dB
(test pulse 250 ns,				ŕ	,		
carrier frequency 37,40 MHz)							
Feedthrough signal suppression							
1,2 μs 1,0 μs before main pulse				50,0	56,0	_	dB
(test pulse 250 ns,							
carrier frequency 37,40 MHz)							
Group delay predistortion			$\Delta  au$				
(reference frequency 38,90 MHz)							
· ·	36,70	MHz		_	-85	_	ns
	34,47	MHz		_	15	_	ns
Impedance at 37,40 MHz							
Input: $Z_{IN} = R_{IN}    C_{IN}$			_	1,6    14,2	_	kΩ    pF	
Output: $Z_{OUT} = R_0$	OUT    C	TUC		_	1,3    5,7	_	kΩ    pF
Temperature coefficient of frequency			TC <sub>f</sub>	<u> </u>	-72	_	ppm/K



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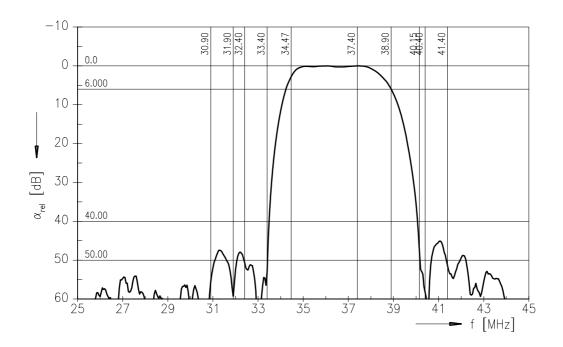
G 3962 M

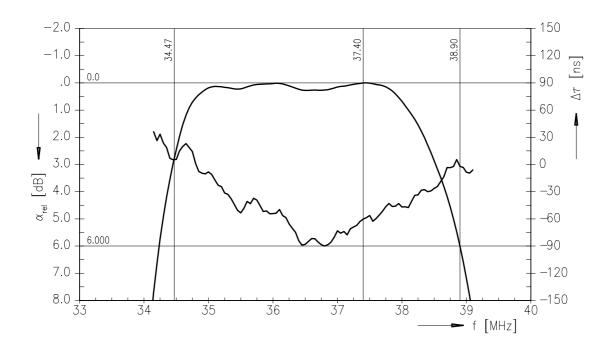
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# Frequency response







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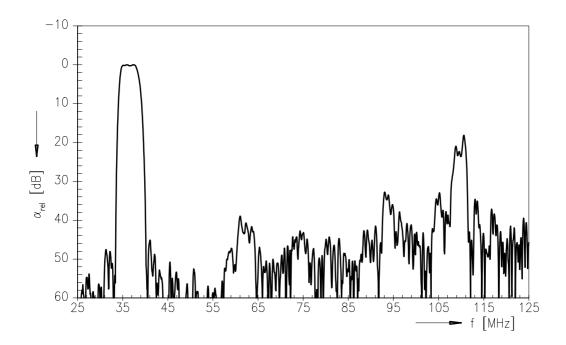
G 3962 M

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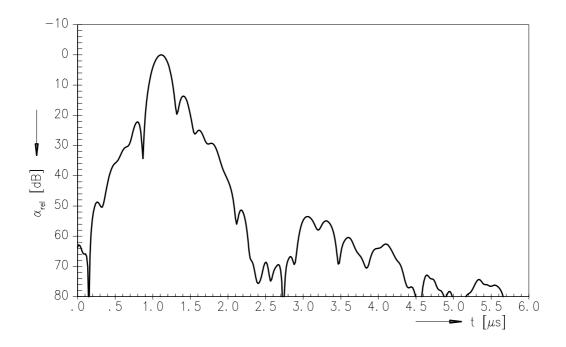
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## Frequency response



# Time domain response





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