

# SAW Components

Data Sheet K 3953 M





#### K 3953 M

**IF Filter for Video Applications** 

■ TV IF filter with Nyquist slopes at 33,90 MHz and

SAW Components

Data Sheet Standard

■ B/G ■ D/K

Features

■ I ■ L/L'

### Plastic package SIP5K

33,90 MHz and 38,90 MHz

## Terminals

38,90 MHz

Tinned CuFe alloy

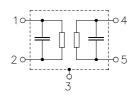
Constant group delay

■ Suitable for CENELEC EN 55020

#### 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	Marking and package according to	Packing according to
K 3953 M	B39389-K3953-M100	C61157-A1-A15	F61074-V8067-Z000

#### **Maximum ratings**

Operable temperature range	T <sub>A</sub>	-25/+65	°C	
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	V <sub>DC</sub>	5	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals



SAW Components		K 3953 M							
IF Filter for Video Applications						33,90 MHz and 38,90 MHz			
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Characteristics									
Reference temperature Terminating source imp Terminating load imped	bedance:		$Z_{\rm S}$	= 25 °C = 50 Ω = 2 kΩ					
					min.	typ.	max.	ĺ	
Insertion attenuation				α					
Reference level for the		37,40	MHz		12,0	13,5	15,0	dB	
following data									
Relative attenuation				$\alpha_{rel}$					
Picture carrier		38,90	MHz	161	5,0	6,0	7,0	dB	
		33,90			6,3	7,5	8,7	dB	
Color carrier		34,47	MHz		_	1,3	—	dB	
Sound carrier		33,40	MHz		20,0	24,0	—	dB	
		32,90	MHz		_	54,0	_	dB	
		32,40	MHz		_	63,0	_	dB	
Adjacent picture carrier		30,90	MHz		48,0	62,0	_	dB	
		31,90	MHz		48,0	59,0	—	dB	
		40,15	MHz		36,0	40,0	—	dB	
Adjacent sound carrier		40,40	MHz		48,0	59,0	—	dB	
		41,40			46,0	60,0	—	dB	
		40,90			46,0	59,0	—	dB	
Lower sidelobe	25,00				45,0	52,0	—	dB	
Upper sidelobe	40,40	45,00	MHz		38,0	44,0	—	dB	
Reflected wave signa	l suppressio	on							
1,2 μs 6,0 μs after m	ain pulse				42,0	50,0	—	dB	
(test pulse 250 ns,									
carrier frequency 37,40	MHz)								
Feedthrough signal s	uppression								
1,2 μs 1,1 μs before	main pulse				50,0	56,0	—	dB	
(test pulse 250 ns,									
carrier frequency 37,40	MHz)								
Group delay ripple (p·	-p)			Δτ	_	50	_	ns	
Impedance at 37,40 M									
	$Z_{\rm IN} = R_{\rm II}$				-	1,4    16,9	—	kΩ    pl	
Outpu	t: $Z_{OUT} = R_C$	<sub>ОUT</sub>    <i>С</i> о	JUT		—	1,6    4,7	—	kΩ    pl	
Temperature coefficie	ent of freque	ency		TC <sub>f</sub>	_	-72	_	ppm/K	

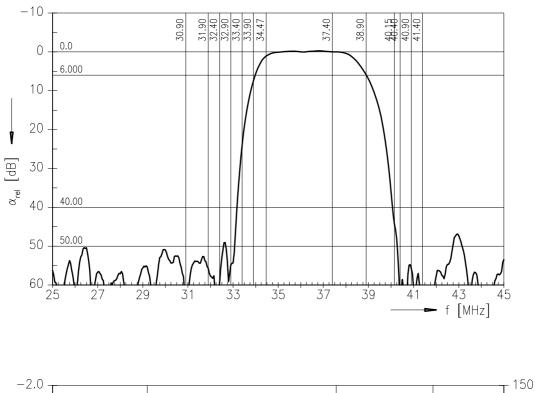


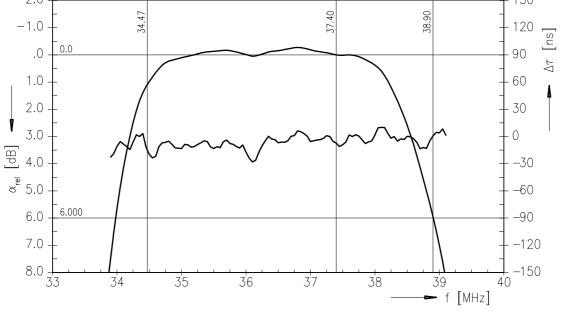
IF FILLEI IOI VILLEO

33,90 MHz and 38,90 MHz

**Data Sheet** 

#### Frequency response







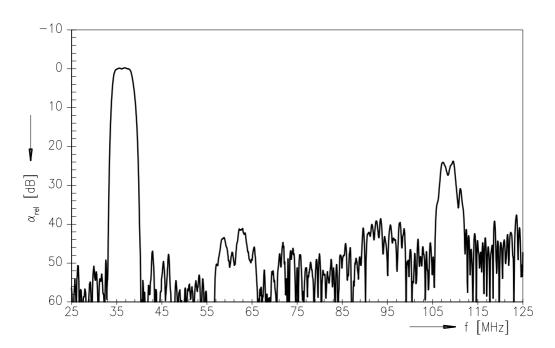
#### **IF Filter for Video Applications**

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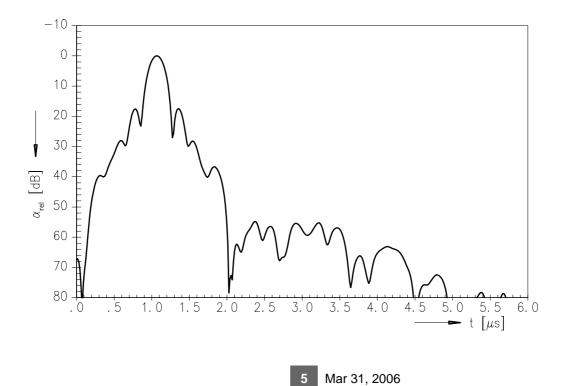
33,90 MHz and 38,90 MHz

#### **Data Sheet**

#### **Frequency response**



#### Time domain response





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