

SAW Components

Data Sheet K 3953 M





K 3953 M

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33,90 MHz and 38,90 MHz

Data Sheet

SAW Components

Standard

- B/G
- D/K
- **I**
- L/L'

Features

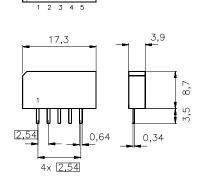
- TV IF filter with Nyquist slopes at 33,90 MHz and 38,90 MHz
- Constant group delay
- Suitable for CENELEC EN 55020

IF Filter for Video Applications

Terminals

■ Tinned CuFe alloy

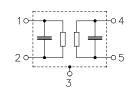
Plastic package SIP5K



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



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Characteristics							
Reference temperature	:	T_{A}	= 25 ° (C			
Terminating source impedance: $Z_{\rm S}$ =				2			
Terminating load imped	lance:	Z_{L}	= 2 kΩ	3 pF			
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the	37,4	0 MHz		12,0	13,5	15,0	dB
following data							
Relative attenuation			α_{rel}				
Picture carrier	38.9	0 MHz	eriel	5,0	6,0	7,0	dB
		0 MHz		6,3	7,5	8,7	dB
Color carrier		7 MHz			1,3		dB
Sound carrier		0 MHz		20,0	24,0	_	dB
	32,9	0 MHz		_	54,0	_	dB
	32,4	0 MHz		_	63,0	_	dB
Adjacent picture carrier	30,9	0 MHz		48,0	62,0	_	dB
	31,9	0 MHz		48,0	59,0	_	dB
	40,1	5 MHz		36,0	40,0	—	dB
Adjacent sound carrier	40,4	0 MHz		48,0	59,0	—	dB
	41,4	0 MHz		46,0	60,0	—	dB
	40,9	0 MHz		46,0	59,0	—	dB
Lower sidelobe	25,00 31,9	0 MHz		45,0	52,0	—	dB
Upper sidelobe	40,40 45,0	0 MHz		38,0	44,0		dB
Reflected wave signal	suppression						
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)		$\Delta \tau$	_	50	_	ns
Impedance at 37,40 M	Hz						
Input:	$Z_{IN} = R_{IN} \parallel$	$C_{\rm IN}$		_	1,4 16,9	—	kΩ pF
Outpu	t: $Z_{OUT} = R_{OUT} \parallel$	C _{OUT}			1,6 4,7	—	kΩ pF
Temperature coefficie	ont of frequency		TC _f	_	-72		ppm/K
	in or nequency		. 01				PP.1.01

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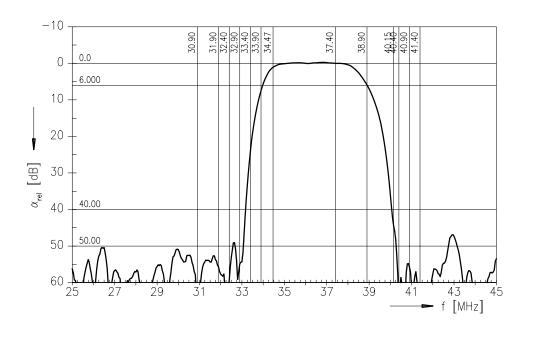
IF Filter for Video Applications

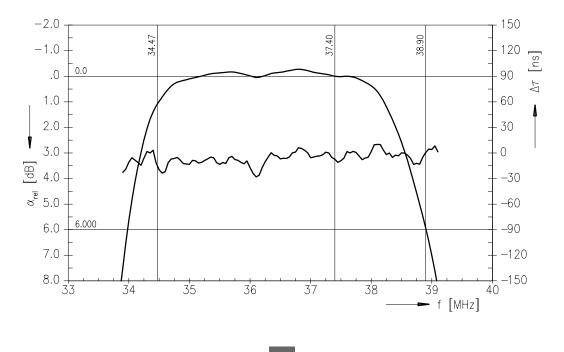
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Data Sheet

Frequency response





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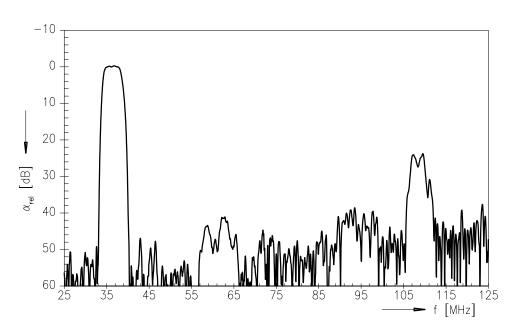
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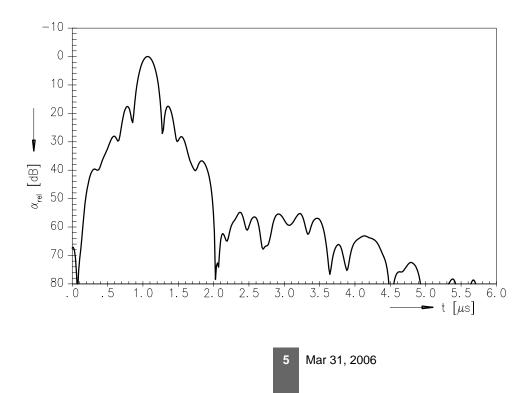
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Frequency response



Time domain response





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