

Data Sheet K 9650 M





IF Filter for Audio Applications

Data Sheet

Standard

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

Features

- TV IF audio filter with two channels
- Channel 1 (L') with one pass band for sound carrier at 40,40 MHz
- Channel 2 (L, D/K, I, B/G) with one pass band for sound carriers between 32,40 MHz and 33,40 MHz

Terminals

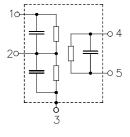
■ Tinned CuFe alloy

Dimensions in mm, approx. weight 1,0 g

0,64

Pin configuration

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



Туре	Ordering code	Marking and package according to	Packing according to
K 9650 M	B39389-K9650-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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3,9

0,34

8,7

3,5

33,90 MHz and 38,90 MHz

1 2 3 4 5

17,3

4x 2,54

2,54

Plastic package SIP5K



IF Filter for Audio Applicatio		33,90 MHz and 38,90 MHz					
Data Sheet							
Characteristics of channel 1(switching pin 2 connected to ground)							
Reference temperature: $T_A = 25 \degree C$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 2 \ k\Omega \parallel 3 \ pF$							
			min.	typ.	max.		
Insertion attenuation Reference level for the following data	40,40	α MHz	12,4	13,9	15,4	dB	
Relative attenuation		α_{rel}					
Picture carrier	33,90 38,40		40,0 40,0	49,0 50,0		dB dB	
Adjacent picture carrier	41,90	MHz	36,0	46,0	_	dB	
Adjacent sound carrier	32,40	MHz	38,0	45,0		dB	
Lower sidelobe 25,00	. 38,40	MHz	37,0	44,0	_	dB	
Upper sidelobe 41,90	. 45,00	MHz	34,0	40,0		dB	
Impedance at 40,40 MHz							
Input: Z _{IN} = F			—	0,8 9,1	—	kΩ pF	
Output: $Z_{OUT} = R$		OUT		2,2 5,4	_	kΩ pF	

Temperature coefficient of frequency	TC _f	—	-72	
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			2,2 5,4	_

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ppm/K



IF Filter for Audio Applications

33,90 MHz and 38,90 MHz

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SAW Components

Characteristics of channel 2 (switching input pin 2 connected to input pin 1)

Reference temperature:	$T_{A} = 25 \degree C$
Terminating source impedance:	$Z_{\rm S} = 50 \ \Omega$
Terminating load impedance:	$Z_{L} = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the		33,40	MHz		13,8	15,3	16,8	dB
following data								
Relative attenuation				$\alpha_{ m rel}$				
Sound carrier		33,05	MHz		-1,4	-0,4	0,6	dB
		32,90	MHz		-1,1	-0,1	0,9	dB
		32,40	MHz		-1,1	-0,1	0,9	dB
Picture carrier		38,90	MHz		38,0	49,0	—	dB
Color carrier		34,47	MHz		30,0	40,0	—	dB
Adjacent picture carrier		30,90	MHz		32,0	41,0	—	dB
Adjacent sound carrier		40,40	MHz		35,0	41,0	—	dB
		40,90	MHz		36,0	45,0	—	dB
		41,40	MHz		35,0	41,0	_	dB
Lower sidelobe	25,00	30,50	MHz		38,0	46,0		dB
Upper sidelobe	38,90				32,0	38,0	_	dB
Impedance at 33,40 MHz								
Input: $Z_{\rm IN} = R_{\rm IN} C_{\rm IN}$				_	1,0 13,5	_	kΩ pF	
Output: $Z_{OUT} = R_{OUT} C_{OUT}$				-	2,7 5,8		$k\Omega \ pF$	
Temperature coefficient of frequency			TC _f	_	-72		ppm/K	

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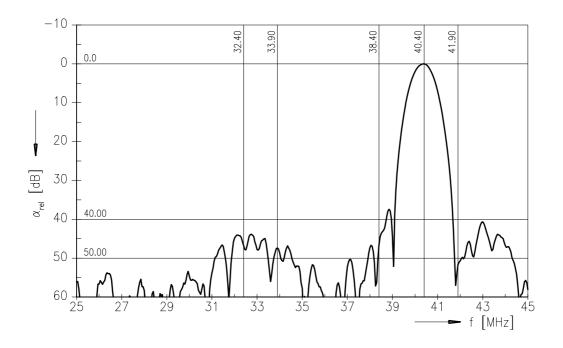


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33,90 MHz and 38,90 MHz

Data Sheet

Frequency response of channel 1



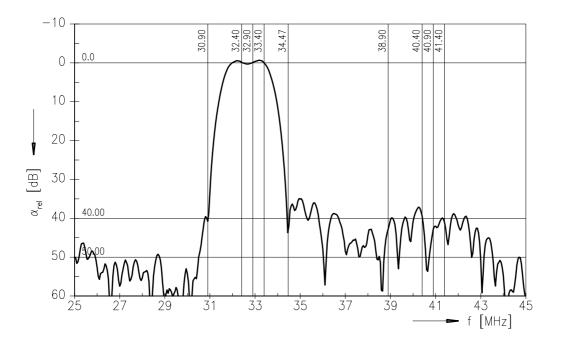
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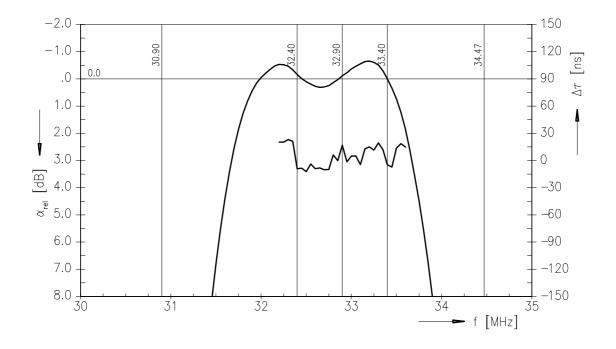


33,90 MHz and 38,90 MHz

Data Sheet

Frequency response of channel 2





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