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Data Sheet K 9650 M





IF Filter for Audio Applications

Data Sheet

Standard

- B/G
- D/K
- **I** 1
- 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

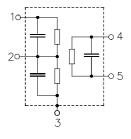
■ Tinned CuFe alloy

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

2

K 9650 M

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 Applications					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			α					
Reference level for the		40,40	MHz	12,4	13,9	15,4	dB	
following data								
Relative attenuation			$lpha_{rel}$					
Picture carrier		33,90	MHz	40,0	49,0	—	dB	
		38,40	MHz	40,0	50,0	_	dB	
Adjacent picture carrier 41,90 MHz			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: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	0,8 9,1	_	$k\Omega \parallel pF$	
Outpu	t: $Z_{OUT} = R_{OT}$	_{UT} <i>C</i> o	DUT	-	2,2 5,4		$k\Omega \parallel pF$	
Temperature coefficient of frequency TC _f			_	-72		ppm/K		

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K 9650 M

IF Filter for Audio Applications

33,90 MHz and 38,90 MHz

Data Sheet

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 Ω
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				α_{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	45,00	MHz		32,0	38,0	—	dB
Impedance at 33,40 MHz								
Input: $Z_{IN} = R_{IN} C_{IN}$					_	1,0 13,5	_	k $\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT} C_{OUT}$					_	2,7 5,8	_	$k\Omega \parallel pF$
Temperature coefficient of frequency				$TC_{\rm f}$		-72		ppm/K

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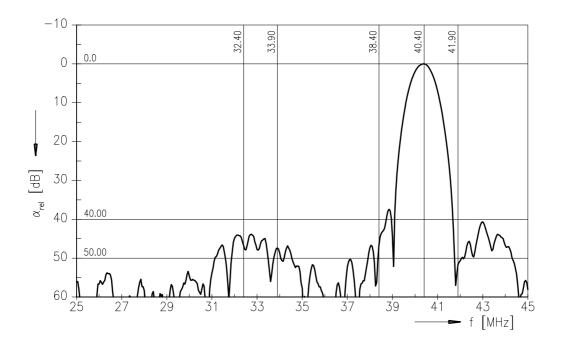


K 9650 M

33,90 MHz and 38,90 MHz

Data Sheet

Frequency response of channel 1



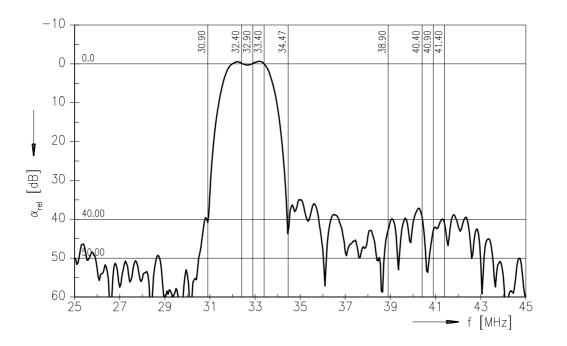
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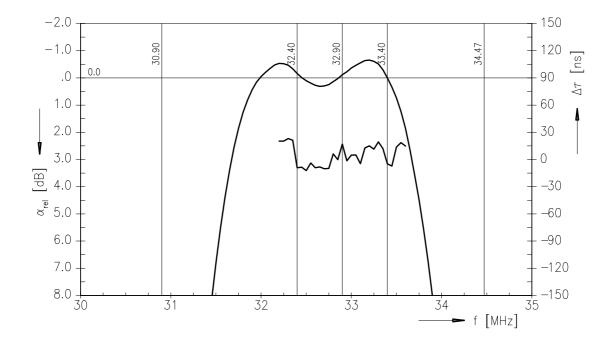


33,90 MHz and 38,90 MHz

Data Sheet

Frequency response of channel 2





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K 9650 M

IF Filter for Audio Applications

33,90 MHz and 38,90 MHz

Data Sheet

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE MM PD P.O. Box 80 17 09, D-81617 München

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