

Data Sheet K 7252 M



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SAW Components K 7252 M IF Filter for Intercarrier / Multistandard Applications 38,90 MHz

Data Sheet

Standard

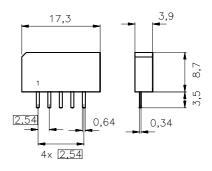
- B/G
- D/K
- M/N

Features

- TV IF filter switchable from B/G, D/K mode to M/N mode
- B/G, D/K mode with Nyquist slope and broad sound shelf for sound carriers at 32,40 MHz and 33,40 MHz
- Reduced group delay predistortion as compared to standard B/G half
- M/N mode with Nyquist slope and sound shelf at 34,40 MHz
- Constant group delay

Plastic package SIP5K





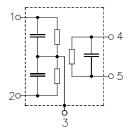
Dimensions in mm, approx. weight 1,0 g

Terminals

■ Tinned CuFe alloy

Pin configuration

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



Туре	Ordering code	Marking and package according to	Packing according to		
K 7252 M	B39389-K7252-M100	C61157-A1-A15	F61074-V8067-Z000		

Maximum ratings

Operable temperature range	T_{A}	-25/+65	°C	
Storage temperature range	$T_{\rm stg}$	-40/+85	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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Characteristics in B/G, D/K mode (switching pin 2 connected to ground)

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		15,4	16,9	18,4	dB
following data								
Relative attenuation				α_{rel}				
Picture carrier		38,90	MHz		4,6	5,6	6,6	dB
Color carrier		34,47	MHz		0,2	1,2	2,2	dB
Sound carrier		32,40	MHz		17,7	19,2	20,7	dB
		33,40	MHz		16,0	17,5	_	dB
Adjacent picture carrier		30,90	MHz		46,0	58,0	_	dB
		31,90	MHz		38,0	50,0	_	dB
Adjacent sound carrier		40,40	MHz		41,0	50,0	_	dB
		41,40	MHz		40,0	46,0	_	dB
Lower sidelobe	25,00	30,90	MHz		36,0	42,0	_	dB
Upper sidelobe	40,40	45,00	MHz		33,0	39,0	_	dB
Reflected wave signal s	suppression	on						
1,3 μs 6,0 μs after mai	n pulse				42,0	50,0	_	dB
(test pulse 250 ns,								
carrier frequency 37,40 N	ИHz)							
Feedthrough signal sup	pression							
1,2 μs 1,1 μs before main pulse					_	56,0	_	dB
(test pulse 250 ns,								
carrier frequency 37,40 N	ИHz)							
Group delay predistorti	on			Δτ				
(reference frequency 38,	90 MHz)							
		36,80	MHz		_	-40	_	ns
		34,47	MHz			50	_	ns
Impedance at 37,40 MH								
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	1,0 17,3	_	$k\Omega \parallel pF$	
Output:	$Z_{\text{OUT}} = R_{\text{C}}$	$_{OUT} \parallel C_{O}$	DUT		<u> </u>	2,7 3,4	<u> </u>	$k\Omega \parallel pF$
Temperature coefficient of frequency				TC_{f}		-72		ppm/K



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Characteristics in M/N mode (switching pin 2 connected to pin 1)

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		15,5	17,0	18,5	dB
following data							
Relative attenuation			α_{rel}				
Picture carrier	38,90	MHz		4,9	5,9	6,9	dB
Color carrier	35,32	MHz		0,8	1,8	2,8	dB
Sound carrier	34,40	MHz		17,0	18,5	20,0	dB
Adjacent picture carrier	32,90	MHz		40,0	52,0	_	dB
Adjacent sound carrier	40,40	MHz		41,0	49,0	_	dB
Lower sidelobe	25,00 32,90	MHz		36,0	42,0	_	dB
Upper sidelobe	40,40 45,00	MHz		31,0	37,0	_	dB
Reflected wave signal	Reflected wave signal suppression						
1,2 μs 6,0 μs after ma	in pulse			42,0	52,0	_	dB
(test pulse 250 ns,							
carrier frequency 37,40 MHz)							
Feedthrough signal suppression							
1,2 μs 1,1 μs before m	1,2 μs 1,1 μs before main pulse				50,0	_	dB
(test pulse 250 ns,							
carrier frequency 37,40 M							
Group delay ripple (p-p)			Δau	_	50	_	ns
Impedance at 37,40 MHz							
Input:	$Z_{IN} = R_{IN} \parallel C$	N 'IN		_	1,1 21,0	_	$k\Omega \parallel pF$
-	$Z_{\text{OUT}} = R_{\text{OUT}} \parallel C$			_	2,7 3,4	_	kΩ pF
Temperature coefficien	t of frequency		TC_{f}	_	-72	_	ppm/K



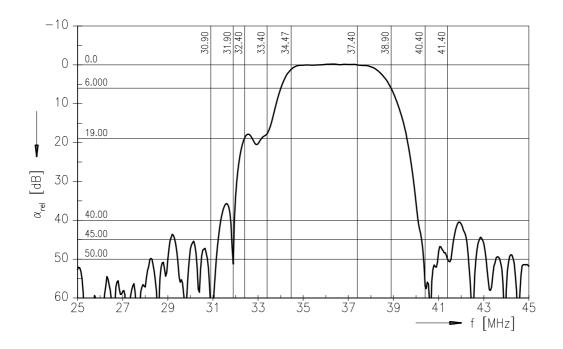
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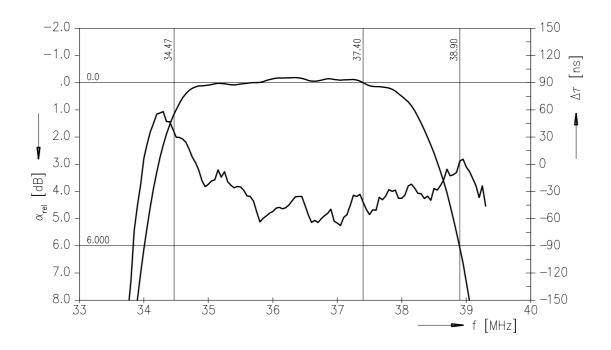
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Frequency response B/G, D/K mode







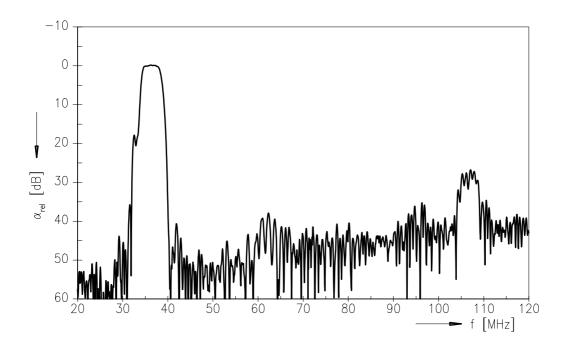
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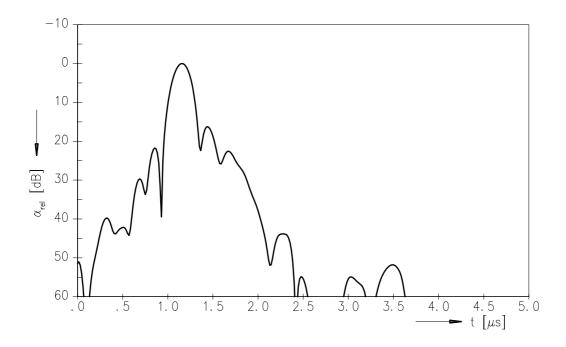
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Frequency response B/G, D/K mode



Time domain response B/G, D/K mode





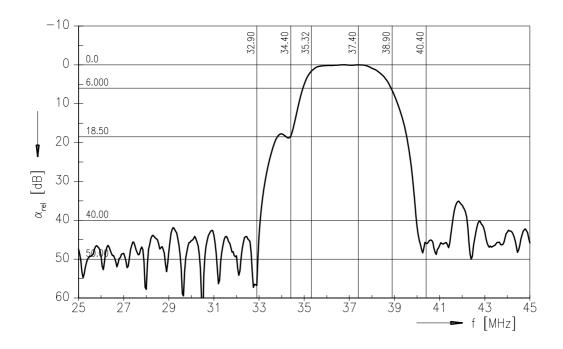
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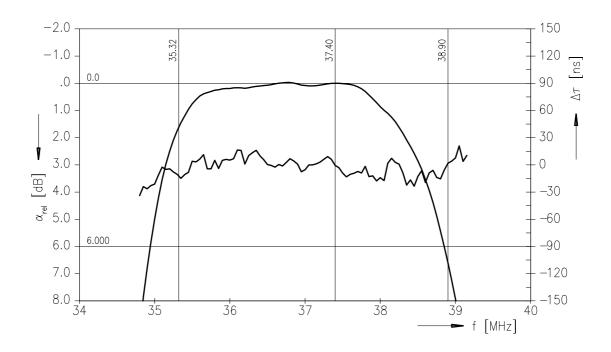
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Frequency response M/N mode







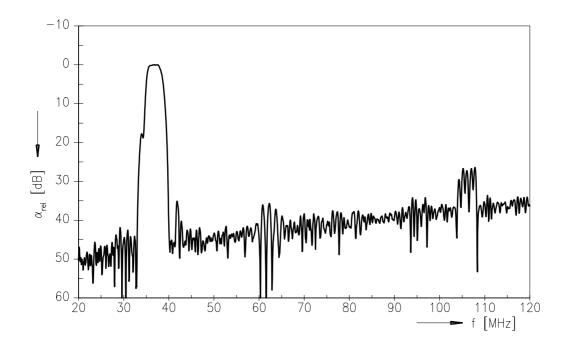
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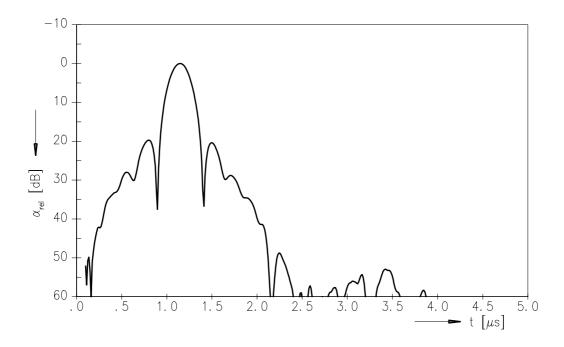
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Frequency response M/N mode



Time domain response M/N mode





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