

w.DataSheet4U.com

SAW Components

Data Sheet K 7254 M





SAW Components K 7254 M IF Filter for Intercarrier / Multistandard Applications 38,00 MHz

Data Sheet

Standard

■ B/G

■ D/K

■ M/N

JataSheet4U.com

Features

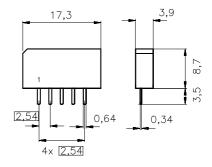
- TV IF filter switchable from B/G, D/K mode to M/N mode
- M/N mode with Nyquist slope and sound shelf
- Customized group delay predistortion
- B/G, D/K mode with Nyquist slope and sound suppressiont
- Customized group delay predistortion

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K





Dimensions in mm, approx. weight 1,0 g

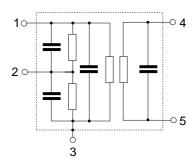
Pin configuration

1 Input

2 Switching input

3 Chip carrier - ground

4,5 Output



Туре	Ordering code	Marking and package according to	Packing according to		
K 7254 M	B39380-K7254-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	$V_{\rm DC}$	5	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals



K 7254 M

IF Filter for Intercarrier / Multistandard Applications

38,00 MHz

Data Sheet

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

ww.DataSheet4U.com

				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the	36,50	MHz		14,3	15,8	17,3	dB
following data							
Relative attenuation			$lpha_{rel}$				
Picture carrier	38,00	MHz		5,2	6,2	7,2	dB
Color carrier	33,57	MHz		0,2	1,2	2,2	dB
Sound carrier	31,50	MHz		46,0	63,0	_	dB
	32,50	MHz		36,0	48,0	_	dB
Adjacent picture carrier	30,00	MHz		44,0	55,0	_	dB
	31,00	MHz		42,0	55,0	_	dB
Adjacent sound carrier	39,50	MHz		40,0	51,0	_	dB
	40,50	MHz		40,0	53,0	_	dB
Lower sidelobe 25,00	29,20	MHz		42,0	51,0	_	dB
Upper sidelobe 39,50	45,00	MHz		34,0	39,0	_	dB
Reflected wave signal suppression 1,3 μs 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)				42,0	50,0	_	dB
Feedthrough signal suppression 1,2 μs 1,1 μs before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)				50,0	56,0	_	dB
Group delay predistortion (reference frequency 38,00 MHz)	33,57	MHz	Δτ	_	-60	_	ns
Impedance at 36,50 MHz							
Input: $Z_{IN} = R$				_	1,1 18,4	_	$k\Omega \parallel pF$
Output: $Z_{OUT} = R_0$	$_{OUT} \parallel C$	TUC		_	1,5 4,5	<u> </u>	$k\Omega \parallel pF$
Temperature coefficient of frequency					-72		ppm/K



K 7254 M

IF Filter for Intercarrier / Multistandard Applications

38,00 MHz

Data Sheet

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

ww.DataSheet4U.com

					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the		36,50	MHz		14,2	15,7	17,2	dB
following data								
Relative attenuation				α_{rel}				
Picture carrier		38,00	MHz		5,3	6,3	7,3	dB
Color carrier		34,42	MHz		2,3	3,3	4,3	dB
Sound carrier		33,50	MHz		18,6	20,1	21,6	dB
Adjacent picture carrier		32,00	MHz		43,0	51,0	_	dB
Adjacent sound carrier		39,50			42,0	56,0	_	dB
	25,00	•			40,0	46,0	_	dB
Upper sidelobe	39,50	45,00	MHz		36,0	42,0	_	dB
Reflected wave signal s	Reflected wave signal suppression							
1,3 μs 6,0 μs after main	n pulse				42,0	50,0	_	dB
(test pulse 250 ns,								
carrier frequency 36,50 M	1Hz)							
Feedthrough signal sup	pression							
1,2 μs 1,1 μs before ma	ain pulse				_	50,0	_	dB
(test pulse 250 ns,								
carrier frequency 36,50 M	1Hz)							
Group delay predistortion	on			Δau				
(reference frequency 38,0	00 MHz)							
		34,42	MHz		_	-60	<u> </u>	ns
Impedance at 36,50 MHz	<u></u>							
•	$Z_{\rm IN} = R_{\rm IN}$	ı ∥ <i>C</i> ı	N		_	1,2 20,3	_	kΩ pF
Output:	$Z_{\text{OUT}} = R_{\text{O}}$	_{UT} <i>C</i>	DUT		_	1,5 4,5	_	$k\Omega \parallel pF$
Temperature coefficient of frequency			TC_{f}	_	-72	_	ppm/K	



K 7254 M

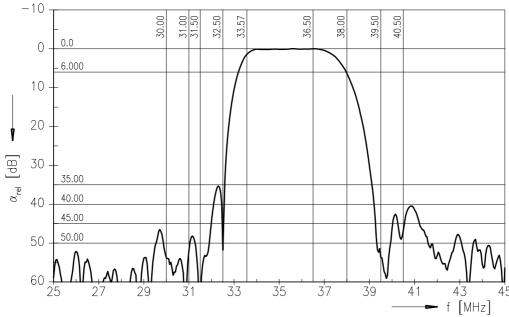
IF Filter for Intercarrier / Multistandard Applications

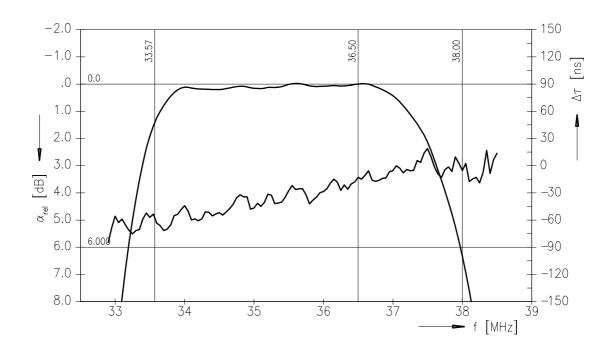
38,00 MHz

Data Sheet

Frequency response B/G, D/K mode

ww DataSheet4U.com







K 7254 M

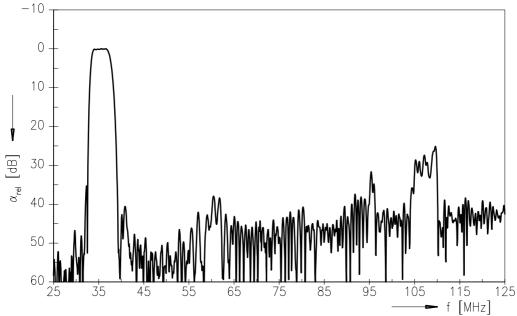
IF Filter for Intercarrier / Multistandard Applications

38,00 MHz

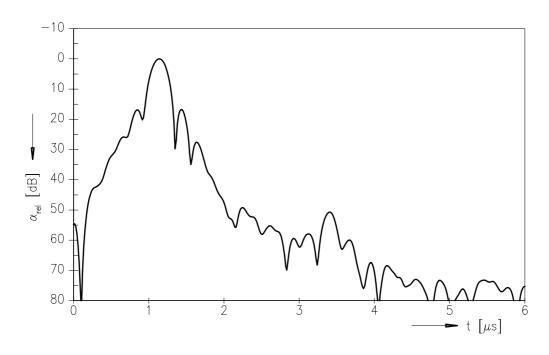
Data Sheet

Frequency response B/G, D/K mode

ww.DataSheet4U.com



Time domain response B/G, D/K mode





K 7254 M

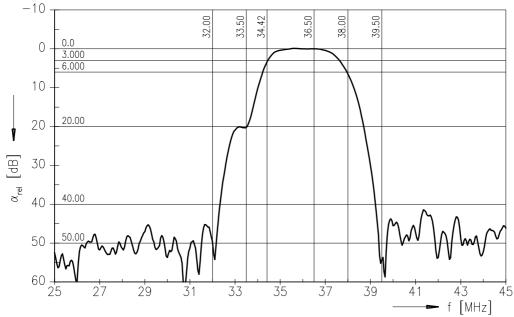
IF Filter for Intercarrier / Multistandard Applications

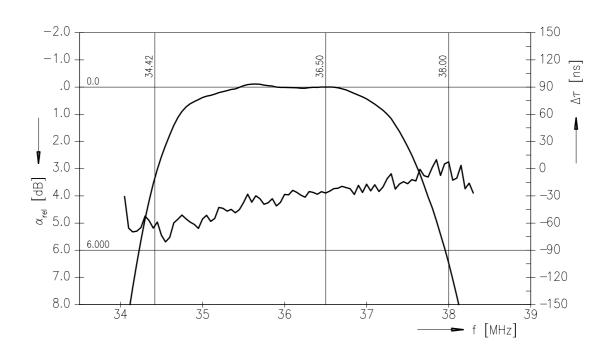
38,00 MHz

Data Sheet

Frequency response M/N mode

ww.DataSheet4U.com







K 7254 M

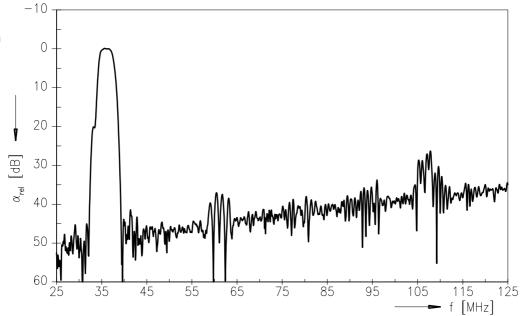
IF Filter for Intercarrier / Multistandard Applications

38,00 MHz

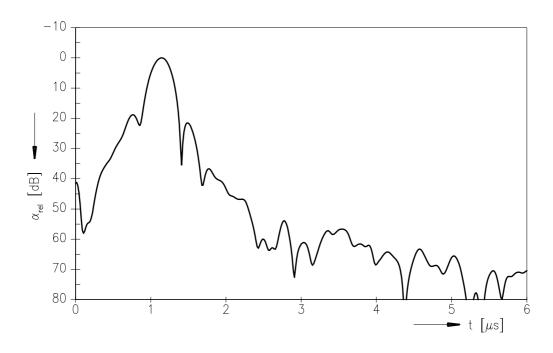
Data Sheet

Frequency response M/N mode

ww.DataSheet4U.com



Time domain response M/N mode





SAW Components K 7254 M

IF Filter for Intercarrier / Multistandard Applications

38,00 MHz

Data Sheet

w DataSheet411 com

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

© EPCOS AG 2003. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.