

SAW Components

Data Sheet K 2973 M





SAW Components K 2973 M IF Filter for Intercarrier Applications 38,00 MHz

Data Sheet

Standard

- B/G
- D/K

Features

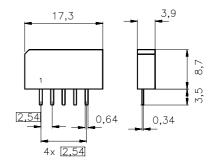
- TV IF filter with Nyquist slope and sound shelf
- Broad sound shelf for sound carriers at 31,50 MHz and 32,50 MHz
- Group delay predistortion

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

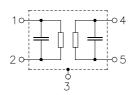




Dimensions in mm, approx. weight 1,0 g

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 2973 M	B39380-K2973-M100	C61157-A1-A15	F61074-V8067-Z000

Maximum ratings

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



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Characteristics

 $\begin{array}{lll} \mbox{Reference temperature:} & T_{\mbox{A}} & = 25 \ ^{\circ}\mbox{C} \\ \mbox{Terminating source impedance:} & Z_{\mbox{S}} & = 50 \ \Omega \\ \mbox{Terminating load impedance:} & Z_{\mbox{L}} & = 2 \ \mbox{k}\Omega \ || \ 3 \ \mbox{pF} \\ \end{array}$

					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the		36,50	MHz		15,6	17,1	18,6	dB
following data		•						
Relative attenuation				α_{rel}				
Picture carrier		38,00	MHz		5,0	6,0	7,0	dB
Color carrier		33,57	MHz		0,7	1,7	2,7	dB
Sound carrier		31,50	MHz		19,1	20,6	22,1	dB
		32,50	MHz		15,8	17,3	_	dB
Adjacent picture carrier		30,00	MHz		45,0	54,0	_	dB
		31,00	MHz		40,0	60,0	_	dB
Adjacent sound carrier		39,50	MHz		43,0	55,0	_	dB
		40,50	MHz		41,0	51,0	_	dB
Lower sidelobe	25,00	30,00	MHz		42,0	48,0	_	dB
Upper sidelobe	39,50	45,00	MHz		40,0	46,0	_	dB
Reflected wave signal	suppressi	on						
1,2 μs 6,0 μs after ma	in pulse				42,0	51,0	_	dB
(test pulse 250 ns,								
carrier frequency 36,50 I	MHz)							
Feedthrough signal su	ppression							
1,2μs 1,1 μs before m	ain pulse				50,0	56,0	_	dB
(test pulse 250 ns,								
carrier frequency 36,50 MHz)								
Group delay predistort	ion			Δτ				
(reference frequency 38,	,90 MHz)							
		34,50	MHz			-80	_	ns
		33,57	MHz		<u> </u>	0	<u> </u>	ns
Impedance at 36,50 MH	lz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	2,3 11,8	_	$k\Omega \parallel pF$	
Output: $Z_{OUT} = R_{OUT} C_{OUT}$					_	3,5 3,1	_	$k\Omega \parallel pF$
Temperature coefficient of frequency				TC _f		-72		ppm/K



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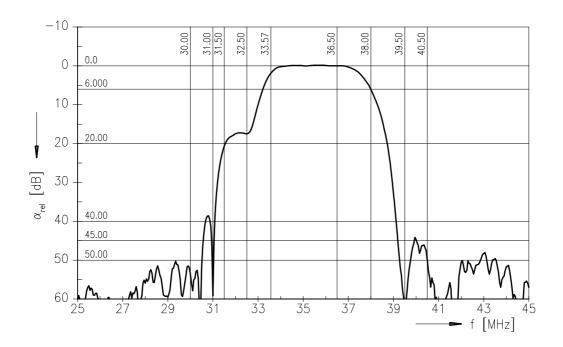
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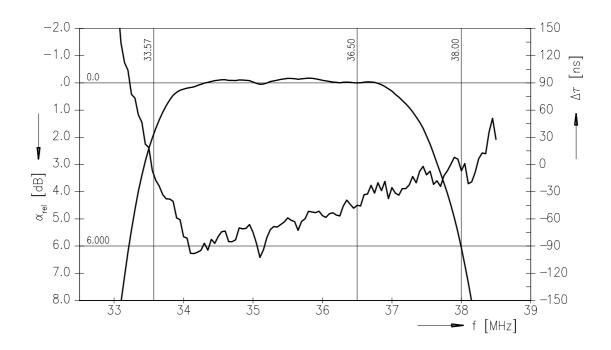
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Frequency response







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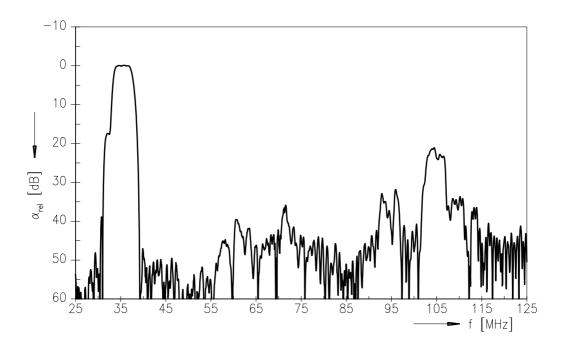
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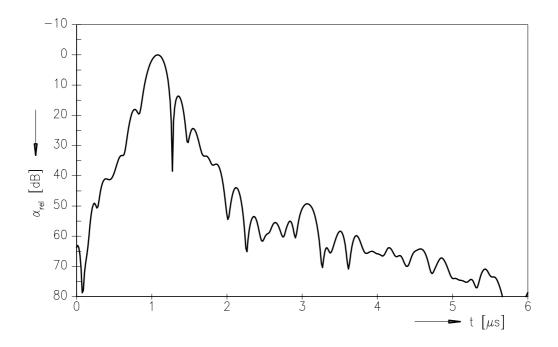
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Frequency response



Time domain response





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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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