

Data Sheet K 2973 M





K 2973 M

IF Filter for Intercarrier Applications

38,00 MHz

Plastic package SIP5K

Data Sheet

Standard

■ B/G

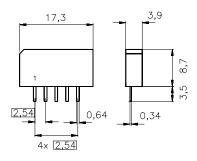
■ D/G

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

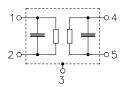
■ Tinned CuFe alloy



Dimensions in mm, approx. weight 1,0 g

Pin configuration

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



		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	$T_{\rm stg}$	-40/+85	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals



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Characteristics

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		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	ion						
1,2 μ s 6,0 μ s after ma (test pulse 250 ns, carrier frequency 36,50 N	•				42,0	51,0	_	dB
Feedthrough signal suppression 1,2μs 1,1 μs before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)					50,0	56,0	_	dB
Group delay predistortion				Δau				
(reference frequency 38,	90 MHz)							
		34,50			_	-80	_	ns
		33,57	MHz		_	0	_	ns
Impedance at 36,50 MH	z							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	2,3 11,8	_	kΩ pF	
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$					_	3,5 3,1	_	kΩ pF
Temperature coefficient of frequency			TC_{f}	_	-72	_	ppm/K	



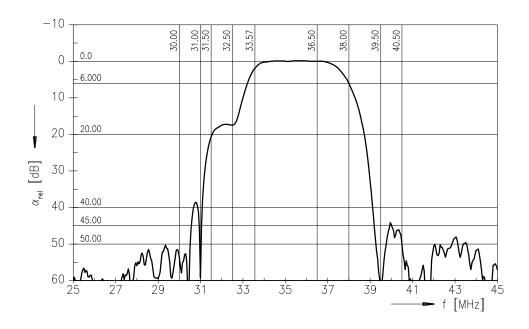
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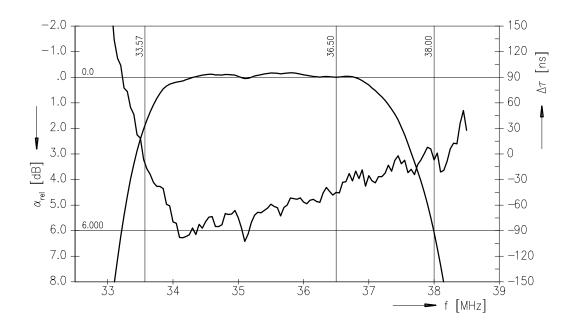
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Frequency response



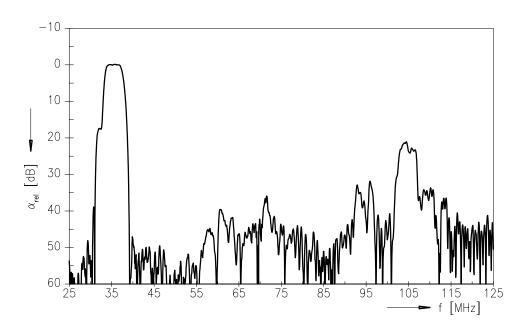




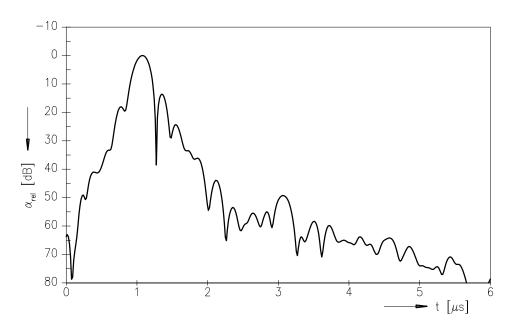
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Frequency response



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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