

SAW Components

Data Sheet K 2953 M





SAW Components K 2953 M IF Filter for Intercarrier Applications 38,00 MHz

Data Sheet

Standard

- B/G
- D/K

Features

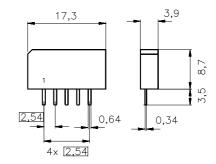
- TV IF filter with Nyquist slope and sound shelf
- Broad sound shelf for sound carriers at 31,50 MHz and 32,50 MHz
- Group delay predistortion

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

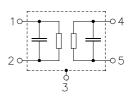




Dimensions in mm, approx. weight 1,0 g

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 2953 M	B39380-K2953-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

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		14,7	16,2	17,7	dB
following data								
Relative attenuation				$lpha_{rel}$				
Picture carrier		38,00	MHz		4,4	5,4	6,4	dB
Color carrier		33,57	MHz		2,1	3,1	4,1	dB
		33,20	MHz		_	8,8	_	dB
Sound carrier		31,50	MHz		_	20,6	_	dB
		32,50	MHz		18,6	19,6	20,6	dB
Adjacent picture carrier		30,00	MHz		46,0	55,0	_	dB
Adjacent sound carrier		39,50	MHz		44,0	53,0	_	dB
Lower sidelobe	25,00	30,00	MHz		39,0	46,0	_	dB
Upper sidelobe	39,50	45,00	MHz		36,0	43,0	_	dB
Reflected wave signal	suppressi	on						
$1,1~\mu s \dots 6,0~\mu s$ after ma	ain pulse				44,0	55,0	_	dB
(test pulse 250 ns,								
carrier frequency 36,50	MHz)							
Feedthrough signal su	ppression							
1,1 μ s 1,0 μ s before r	nain pulse				50,0	56,0	_	dB
(test pulse 250 ns,								
carrier frequency 36,50	MHz)							
Group delay predistor	tion			Δau				
(reference frequency 38	,00 MHz)							
		34,20	MHz		_	-85	_	ns
		33,57	MHz		_	-30	_	ns
Impedance at 36,50 MH	Ηz							
Input: $Z_{IN} = R_{IN} C_{IN}$				_	1,4 13,2	_	kΩ pF	
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				_	2,5 4,0	_	kΩ pF	
Temperature coefficient of frequency			TC_{f}	_	-72	_	ppm/K	



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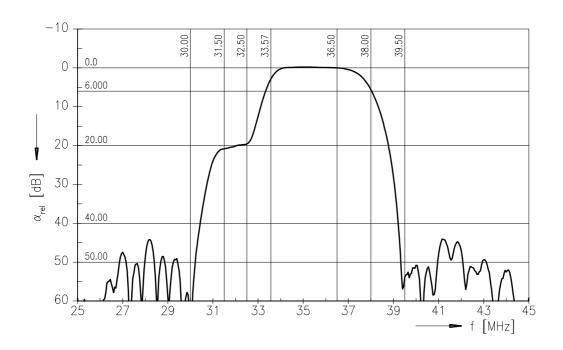
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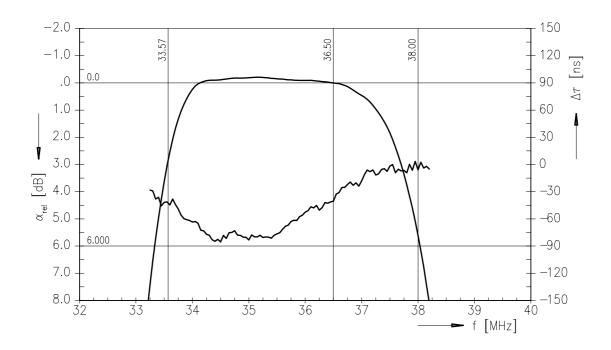
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Frequency response







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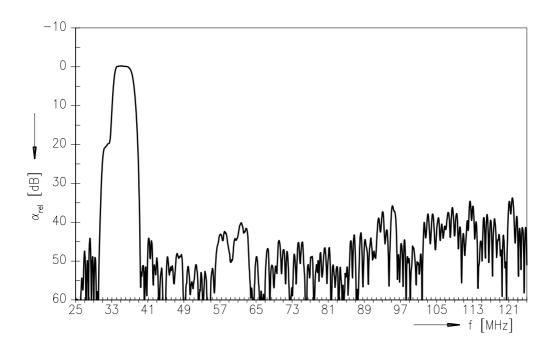
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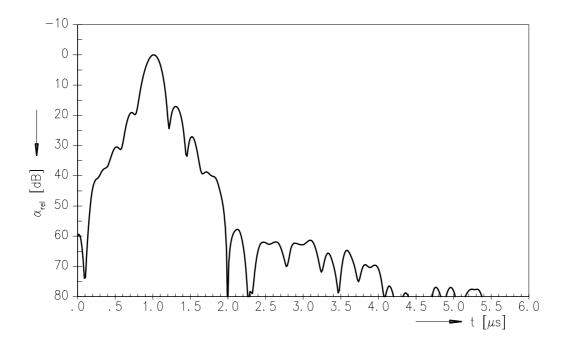
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Frequency response



Time domain response





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