

Data Sheet K 2962 M





SAW Components K 2962 M

IF Filter for Intercarrier Applications

33,90 MHz and 38,90MHz

Data Sheet

Standard

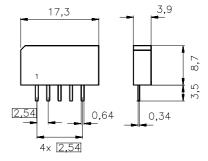
- B/G
- L/L'

Features

- TV IF filter with two Nyquist slope and sound shelf
- Picture carriers at 33,90 MHz and 38,90 MHz
- Broad sound shelf at 15 dB level for sound carriers at 32,90 MHz and 33,40 MHz
- Constant group delay

Plastic package SIP5K





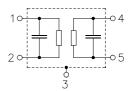
Terminals

■ 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



Туре	Ordering code	Marking and package according to	Packing according to		
K 2962 M	B39389-K2962-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}	5	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	37,40	MHz		13,0	14,5	16,0	dB
following data							
Relative attenuation			α_{rel}				
Picture carrier	38,90	MHz	∽rei	4,6	5,6	6,6	dB
Tiotaro carrior	33,90			5,8	6,8	7,8	dB
Color carrier	34,47			0,0	1,0	2,0	dB
Sound carrier	33,40			_	14,8		dB
	32,90				14,9	_	dB
Adjacent picture carrier	31,90			44,0	56,0	_	dB
Adjacent sound carrier	40,40	MHz		42,0	50,0	_	dB
Lower sidelobe	25,00 31,90	MHz		40,0	47,0	_	dB
Upper sidelobe	40,40 45,00	MHz		40,0	47,0	_	dB
Reflected wave signal suppression							
1,2 μs 6,0 μs after mair				42,0	54,0	_	dB
(test pulse 250 ns,	F			,-	,-		
carrier frequency 37,40 MHz)							
Feedthrough signal suppression							
1,2 μs 1,1 μs before ma	•			50,0	56,0	<u> </u>	dB
(test pulse 250 ns,				00,0	00,0		
carrier frequency 37,40 MHz)							
	···-/						
Group delay ripple (p-p)			Δau	_	40	_	ns
Impedance at 37,40 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	1,5 15,1	_	$k\Omega \parallel pF$
Output: 2	$Z_{\text{OUT}} = R_{\text{OUT}} C_{\text{O}}$	DUT		_	1,8 3,9	_	$k\Omega \parallel pF$
Temperature coefficient of frequency			TC_{f}	_	-72	_	ppm/K



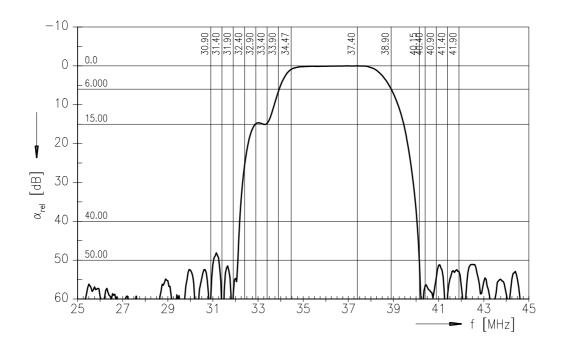
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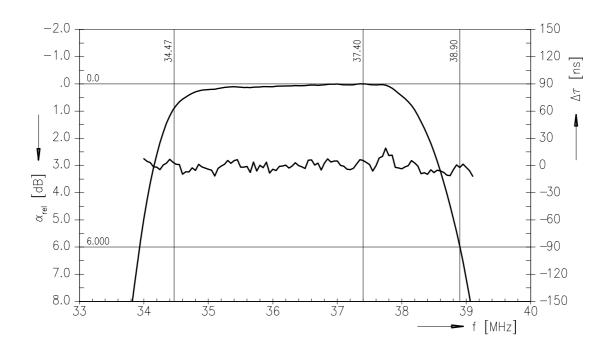
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Frequency response







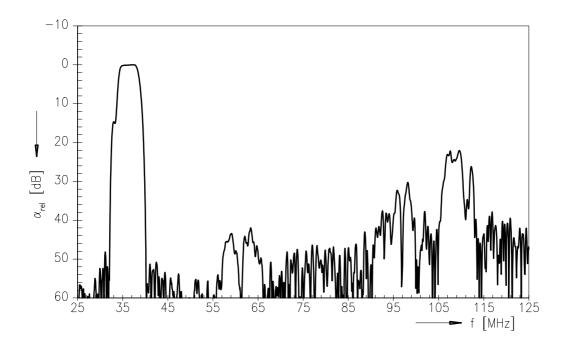
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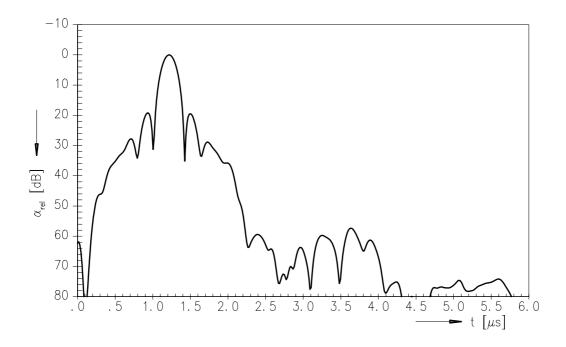
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Frequency response



Time domain response





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