

SAW Components

Data Sheet M 4952 M





SAW Components	M 4952 M
Vestigial Sideband Filter	45,75 MHz

Data Sheet

Standard

■ M/N

Features

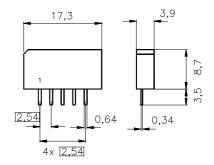
- IF filter for cable converters
- Full transmission of vestigial sideband and sound carrier
- Constant group delay

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

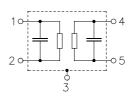




Dimensions in mm, approx. weight 1,0 g

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		
M 4952 M	B39458-M4952-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	$V_{\rm DC}$	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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Characteristics

Reference temperature: $T_{\rm A}=25~(45)~^{\circ}{\rm C}$ 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	43,56 (43,50) MHz		13,3	14,8	16,3	dB
following data						
Relative attenuation		α_{rel}				
Picture carrier	45,81 (45,75) MHz	oviei.	-1,1	-0,1	0,9	dB
	46,56 (46,50) MHz		4,2	5,7	7,2	dB
Color carrier	42,23 (42,17) MHz		-0,9	0,1	1,1	dB
Sound carrier	41,31 (41,25) MHz		-1,4	-0,4	0,6	dB
Adjacent picture carrier	39,81 (39,75) MHz		36,0	53,0		dB
Adjacent sound carrier	47,31 (47,25) MHz		30,0	35,0	_	dB
	51,31 (51,25) MHz		40,0	54,0	<u> </u>	dB
Lower sidelobe						
35,06 39,81 (35,00 39,75) MHz		35,0	41,0	_	dB
Upper sidelobe						
47,91 55,06	(47,8555,00) MHz		38,0	45,0		dB
Reflected wave signal suppression						
1,2 μs 6,0 μs after main p	ulse		42,0	54,0	<u> </u>	dB
(test pulse 250 ns,						
carrier frequency 43,56 MHz)						
Feedthrough signal suppre	ession					
1,2 μs 1,1 μs before main	pulse		50,0	56,0	_	dB
(test pulse 250 ns,						
carrier frequency 43,56 MHz)						
Group delay ripple (p-p)		Δτ				
40,56 46,56 (40.50 46.50) MHz			_	50	_	ns
Impedance at 43,56 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			_	1,4 12,7		$k\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT} C_{OUT}$			_	1,2 4,4	_	$k\Omega \parallel pF$
Temperature coefficient of frequency		TC_{f}	_	-72	_	ppm/K



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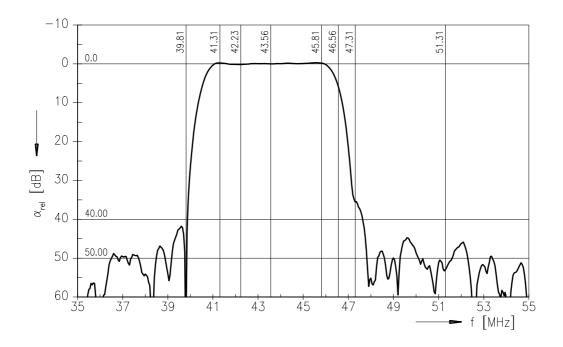
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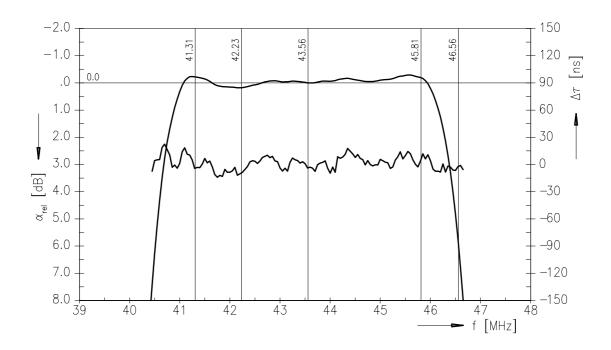
Vestigial Sideband Filter

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Frequency response







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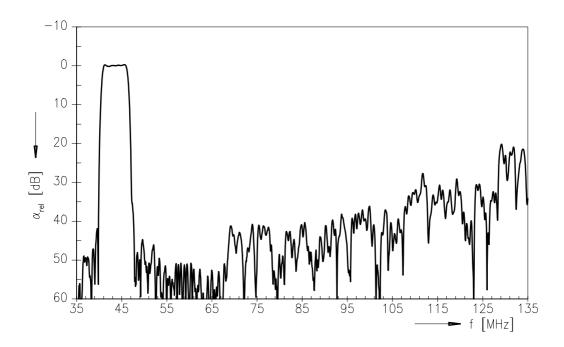
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Vestigial Sideband Filter

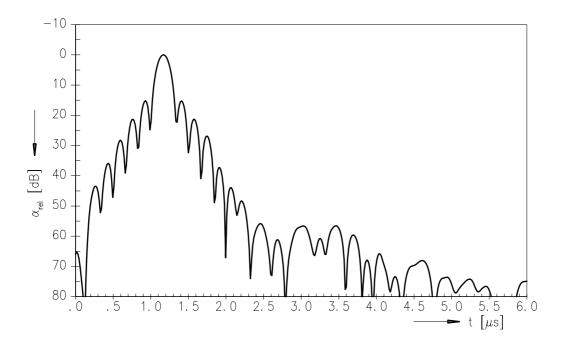
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Frequency response



Time domain response





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