

SAW Components

Data Sheet X 6964 M





SAW Components Bandnass Filter	X 6964 M
Bandpass Filter	43,75 MHz

Data Sheet

Plastic package SIP5K

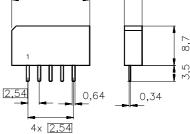
Features

■ IF filter for digital cable TV

Terminals

■ Tinned CuFe alloy

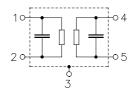




Dimensions in mm, approx. weight 1,0 g

Pin configuration

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



Туре	Ordering code	Marking and package according to	Packing according to		
X 6964 M	B39438-X6964-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_{DC}	12	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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Characteristics

Reference temperature: $T_{\rm A}=25~(45)~^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S}=50~\Omega$ Terminating load impedance: $Z_{\rm L}=2~{\rm k}\Omega~||~3~{\rm pF}$

			min.	typ.	max.	
Center frequency		f_C	_	43,75	_	MHz
(center between 3 dB points	s)					
Insertion attenuation		α				
Reference level for the	43,81 (43,75) MHz		13,3	14,8	16,3	dB
following data						
Pass bandwith						
α _{rel} ≤3 dB		B _{3dB}		6,0	_	MHz
$\alpha_{\text{rel}} \leq 30 \text{ dB}$		B _{30dB}		7,6	_	MHz
Relative attenuation		α_{rel}				
	41,28 (41,22) MHz		-0,8	0,2	1,2	dB
	46,34 (46,28) MHz		-0,7	0,3	1,3	dB
	40,81 (40,75) MHz		1,3	2,5	3,7	dB
	46,81 (46,75) MHz		1,6	2,8	4,0	dB
	40,31 (40,25) MHz		9,0	12,0	_	dB
	47,31 (47,25) MHz		9,0	13,0	_	dB
	39,81 (39,75) MHz		38,0	50,0	_	dB
	47,81 (47,75) MHz		38,0	52,0	_	dB
Lower sidelobe						
35,06 39,81 (3	35,00 39,75) MHz		38,0	46,0	_	dB
Upper sidelobe						
47,81 55,06 (47,75 55,00) MHz			38,0	44,0	_	dB
Reflected wave signal sup						
1,3 μs 6,0 μs after main pulse			42,0	52,0	_	dB
(test pulse 250 ns,						
carrier frequency 43,81 MHz						
Feedthrough signal suppre						
1,3 μs 1,2 μs before main pulse			50,0	56,0	_	dB
(test pulse 250 ns,						
carrier frequency 43,81 MHz)					
Group delay ripple (p-p)		Δτ				
Aperture 50 kHz						
40,81 46,81 (4	40,75 46,75) MHz		_	40	_	ns
Impedance at 43,81 MHz						
Input: $Z_{IN} = R_{IN} \mid\mid C_{IN}$				1,1 16,4	_	$k\Omega \parallel pF$
Output: Z _{OU}	$_{\rm JT} = R_{\rm OUT} \mid\mid C_{\rm OUT}$		_	1,1 5,0	_	$k\Omega \parallel pF$



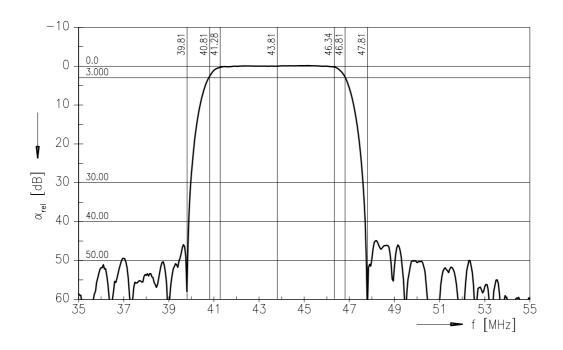
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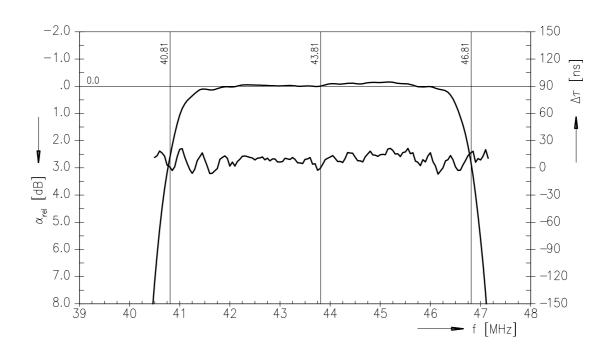
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43,75 MHz

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Frequency response



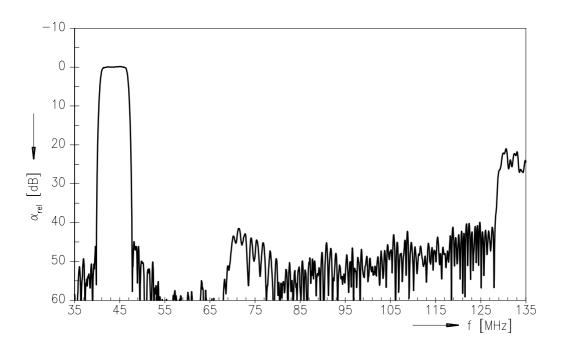




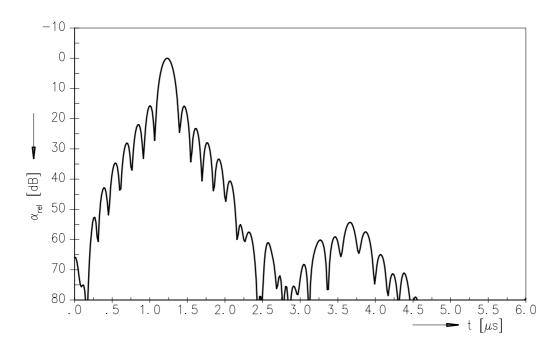
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Frequency response



Time domain response





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