

SAW Components

Data Sheet X 6965 M





SAW Components	X 6965 M
Bandpass Filter	44,00 MHz

Features

Terminals

Tinned CuFe alloy

■ IF filter for digital cable TV

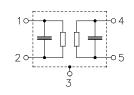
Plastic package SIP5K

17,3 1 2 3 4 5 17,3 17,3 17,3 17,3 17,3 17,3 17,3 10,64 10,64 10,34 10,34

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
X 6965 M	B39440-X6965-M100	C61157-A1-A15	F61074-V8067-Z000

Maximum ratings

Operable temperature range	T _A	-25/+65	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	12	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals

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Data Sheet	
Characteristics	

Reference temperature:	<i>T</i> _A = 25 (45) °C
Terminating source impedance:	$Z_{\rm S}$ = 50 Ω
Terminating load impedance:	$Z_{L} = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

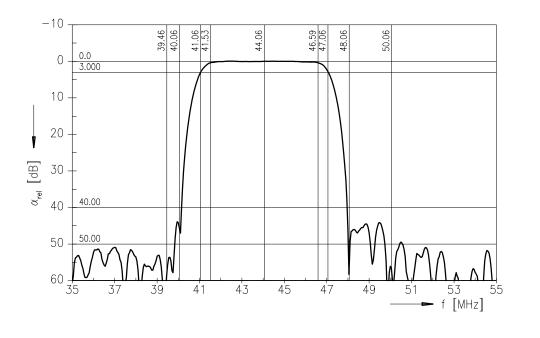
		min.	typ.	max.	
Center frequency	f _C	—	44,00	—	MHz
(center between 3 dB points)					
Insertion attenuation	α				
Reference level for the 44,06 (44,00) MHz		12,9	14,4	15,9	dB
following data					
Pass bandwith					
α _{rel} ≤3 dB	B _{3dB}	—	6,0	—	MHz
α _{rel} ≤30 dB	B _{30dB}	—	7,6	—	MHz
Amplitude ripple	Δα				
Aperture: 250 kHz 41,53 46,59 MHz		—	0,4	0,8	dB
Relative attenuation	α_{rel}				
41,53 (41,47) MHz		—	0,4	—	dB
46,59 (46,53) MHz		—	0,4	—	dB
41,06 (41,00) MHz		1,8	3,0	4,2	dB
47,06 (47,00) MHz		1,5	2,7	3,9	dB
47,31 (47,25) MHz		—	6,2	—	dB
39,81 (39,75) MHz		40,0	52,0	—	dB
Lower sidelobe					
35,06 39,46 (35,00 39,40) MHz		44,0	50,0	—	dB
39,46 40,06 (39,40 40,00) MHz		38,0	44,0	—	dB
Upper sidelobe					
48,06 50,06 (48,00 50,00) MHz		36,0	43,0	—	dB
50,06 55,06 (50,00 55,00) MHz		42,0	48,0	—	dB
Reflected wave signal suppression					
1,3 μs 6,0 μs after main pulse		42,0	52,0	—	dB
(test pulse 250 ns,					
carrier frequency 44,06 MHz)					
Feedthrough signal suppression					
1,3 μs 1,2 μs before main pulse		50,0	56,0	—	dB
(test pulse 250 ns,					
carrier frequency 44,06 MHz)					
Group delay ripple (p-p)	Δτ				
Aperture 250 kHz 41,53 46,59 MHz		—	20	40	ns
Impedance at 44,06 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,3 16,1	—	kΩ pl
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		_	1,1 5,6	_	kΩ pl
Temperature coefficient of frequency	TC _f		-72		ppm/K
remperature coefficient of frequency	70f		-12		

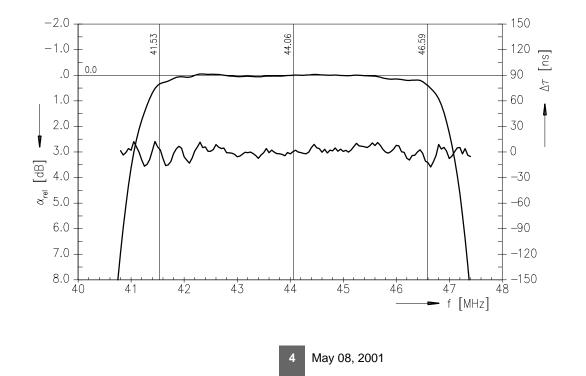
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X 6965 M	SAW Components
44,00 MHz	Bandpass Filter
44	Banupass Filler

Frequency response

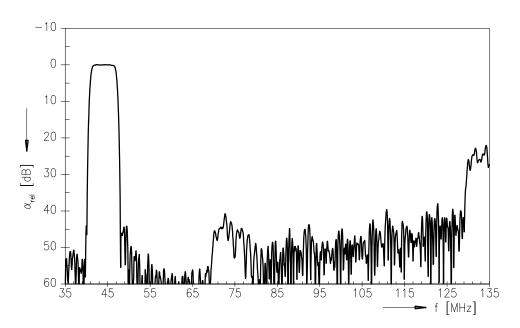




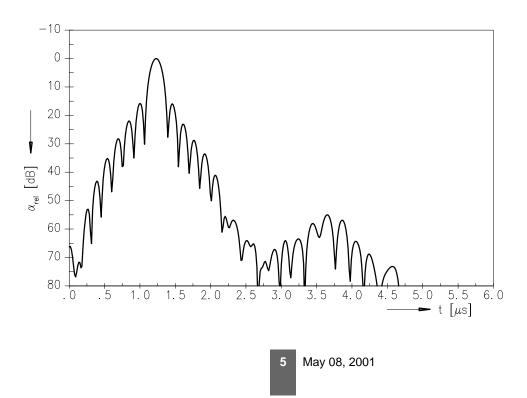


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Frequency response



Time domain response





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