

SAW multimedia filters

Series/Type: X6965D

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39440X6965D100	X6965N	2004-07-23	2004-09-30	
B39440X6965N201		2011-01-14	2011-09-30	2012-09-30

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SAW Components	X 6965 D
Bandpass Filter	44,00 MHz

Features

Terminals

Duroplast package SIP5D

■ IF filter for digital cable TV

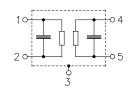
Standard IC package

Tinned CuFe alloy

Dimensions in mm, approx. weight 0,5 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 D	B39440-X6965-N201	C61157-A1-A21	F61074-V8049-Z000

Maximum ratings

Operable temperature range	T _A	-25/+65	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	5	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals



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Data Sheet		
Characteristics		
Reference temperature:	$T_{\rm A} = 25 (45) ^{\circ}{\rm C}$	

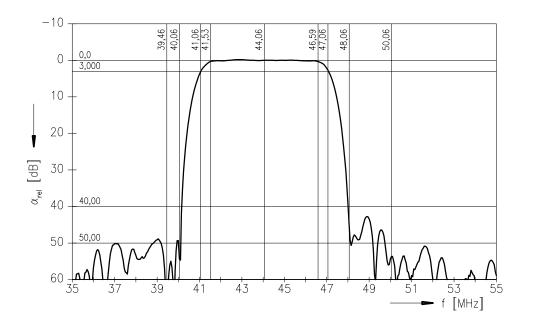
Reference temperature:	$I_{\rm A} = 25 (45)^{-1} {\rm C}$
Terminating source impedance:	$Z_{\rm S} = 50 \ \Omega$
Terminating load impedance:	$Z_{L} = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

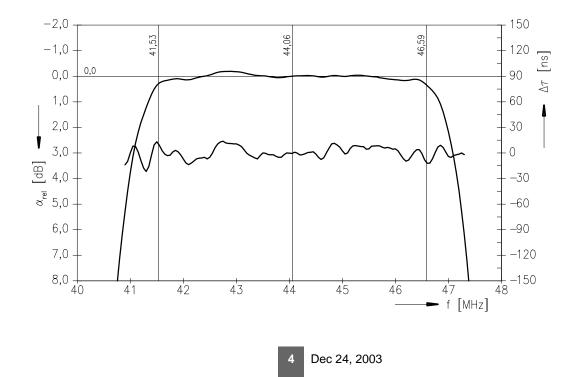
		min.	typ.	max.	
Center frequency	f _C		(44,00)		MHz
(center between 3 dB points)					
Insertion attenuation	α				
Reference level for the 44,06 (44,00) MHz		13,2	14,7	16,2	dB
following data					
Pass bandwith					
$\alpha_{rel} \leq 3 \text{ dB}$	B _{3dB}	_	6,0	_	MHz
$\alpha_{rel} \leq 30 \text{ dB}$	B _{30dB}	_	7,6	_	MHz
Amplitude ripple	Δα				
41,53 46,59 MHz		_	0,4		dB
Relative attenuation	α _{rel}				
41,53 (41,47) MHz		_	0,3		dB
46,59 (46,53) MHz		_	0,4		dB
41,06 (41,00) MHz		1,5	2,7	3,8	dB
47,06 (47,00) MHz		1,8	3,0	4,2	dB
47,31 (47,25) MHz		_	8,3	_	dB
39,81 (39,75) MHz		40,0	55,0		dB
Lower sidelobe					
35,06 39,46 (35,00 39,40) MHz		43,0	47,0	_	dB
39,46 40,06 (39,40 40,00) MHz		38,0	47,0	_	dB
Upper sidelobe					
48,06 50,06 (48,00 50,00) MHz		37,0	42,0		dB
50,06 55,06 (50,00 55,00) MHz		43,0	51,0		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				
41,53 46,59 MHz	-	_	30		ns
Impedance at 44,06 MHz					-
Input: $Z_{\rm IN} = R_{\rm IN} \parallel C_{\rm IN}$		_	1,3 16,1		 kΩ pF
Output: $Z_{OUT} = R_{OUT} C_{OUT}$		_	1,1 5,6	_	kΩ pF
	TO				
Temperature coefficient of frequency	TC _f	_	-72	_	ppm/K



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Frequency response

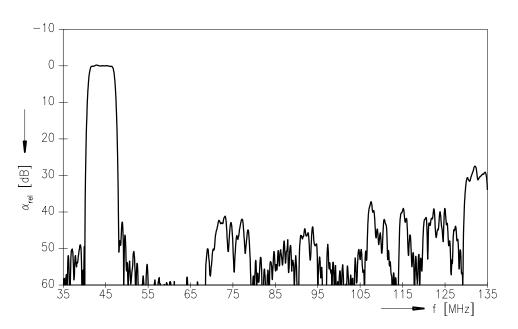




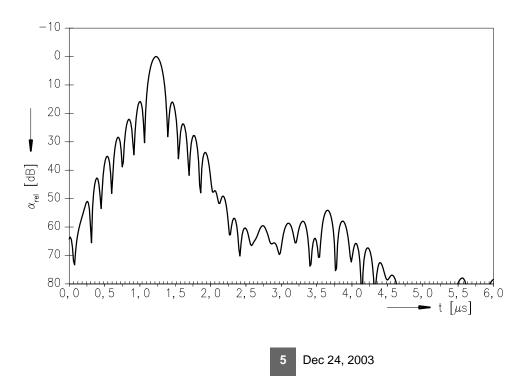


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Frequency response



Time domain response





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Bandpass Filter	44,00 MHz

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This brochure replaces the previous edition.

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