

SAW multimedia filters

Series/Type: X6865D

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39361X6865N201		2011-01-14	2011-09-30	2012-09-30

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SAW Components	X 6865 D
SAW bandpass filter	36.125 MHz
Data sheet	

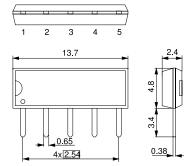
Application

Usable bandwidth 6.0 MHz



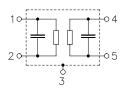
Features

- Duroplast package SIP5D
- Approximate weight 0.5 g
- Standard IC package
- RoHS compatible
- Tinned CuFe alloy terminals



Pin configuration

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



Please read *cautions and warnings and important notes* at the end of this document.

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Characteristics		
Reference temperature: Terminating source impedance:	$T_A = 25 °C$ $Z_2 = 50 \Omega$	

Terminating source impedance:	$Z_{S} = 50 \Omega$
Terminating load impedance:	$Z_L = 2 k\Omega 3 pF$

Center frequencyf _C (center between 3 dB points)Insertion attenuationαReference level for the36.13 MHzfollowing dataG		36.125	—	MHz
(center between 3 dB points)Insertion attenuationαReference level for the36.13 MHz	16.1			
Reference level for the 36.13 MHz	16.1			
	16.1			
following data		17.6	19.1	dB
Pass bandwith				
$\alpha_{rel} \leq 3 dB$ B_{3dl}	в 5.8	6.0	6.2	MHz
$\alpha_{rel} \leq 30 \text{ dB}$ B ₃₀		7.6	7.8	MHz
Relative attenuation α_{rel}				
33.59 MHz	-1.1	0.1	1.3	dB
38.65 MHz	-0.8	0.4	1.6	dB
33.12 MHz	1.3	2.5	3.7	dB
39.12 MHz	1.9	3.1	4.3	dB
Lower sidelobe				
25.00 32.12 MHz	38.0	44.0	—	dB
Upper sidelobe				
40.12 41.42 MHz	36.0	40.0	—	dB
41.42 45.00 MHz	38.0	45.0	—	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 36.13 MHz)				
Feedthrough signal suppression				
1.3 μs 1.2 μs before main pulse	50.0	56.0	—	dB
(test pulse 250 ns,				
carrier frequency 36.13 MHz)				
Group delay ripple (p-p) Δτ				
33.12 39.12 MHz		40	—	ns
Impedance at 36.13 MHz				
Input: $Z_{IN} = R_{IN} C_{IN}$	— —	2.2 15.3	_	kΩ pF
Output: Z _{OUT} = R _{OUT} C _{OUT}		1.4 5.6	_	kΩ pF
Temperature coefficient of frequency TC _f		-72	_	ppm/K

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

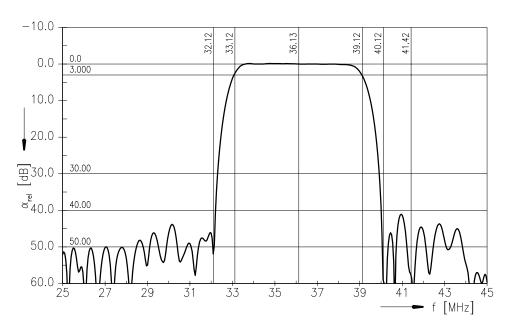
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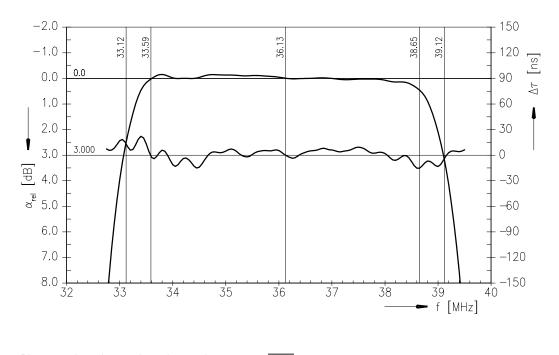


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SAW bandpass filter	36.125 MHz

Data sheet

Frequency response





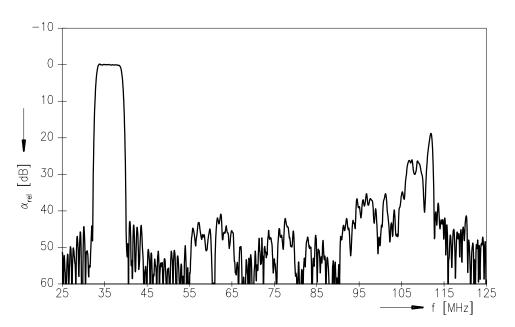
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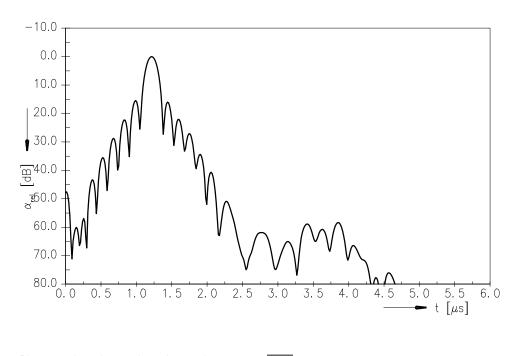
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Data sheet

Frequency response



Time domain response



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Data sheet

References

Туре	X 6865 D
Ordering code	B39361-X6865-N201
Marking and package	C61157-A1-A21
Packaging	F61074-V8049-Z000
Date codes	L_1126
S-parameters	X6865N_NB.s4p
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maxi- mum concentration values for certain hazardous substances in electrical and electronic equipment."

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