



SAW multimedia filters

Series/Type: X7065L

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39435X7065L100		2011-01-14	2011-09-30	2012-09-30

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SAW Components

X 7065 L

SAW bandpass filter

43.53 MHz

Data sheet

SMD

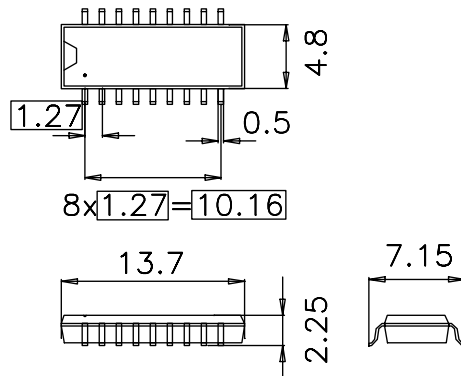
Application

- Standard : M/N
- Usable bandwidth 5.7 MHz
- Balanced input option
- Constant group delay



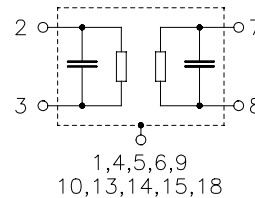
Features

- Duroplast package **DIP18D**
- Approximate weight 0.5 g
- **Surface Mounted Technology (SMT)**
- Standard IC small outline (SO) package
- RoHS compatible
- Tinned CuFe alloy terminals



Pin configuration

- 2 Input
- 3 Input - ground
- 1,4,5,6,9,10,13,14,15,18 Chip carrier - ground
- 7,8 Output
- 11,12,16,17 Not connected



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


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Characteristics

Reference temperature: $T_A = 25 (45)^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	43.53	—	MHz
(center between 10 dB points)					
Insertion attenuation	α				
Reference level for	43.59 (43.53) MHz	14.5	16.0	17.5	dB
the following data					
Relative attenuation	α_{rel}				
39.81 (39.75) MHz		28.0	34.0	—	dB
40.73 (40.67) MHz		—	3.6	—	dB
41.31 (41.25) MHz		—	0.0	—	dB
45.81 (45.75) MHz		—	0.0	—	dB
46.46 (46.40) MHz		—	2.6	—	dB
47.31 (47.25) MHz		34.0	41.0	—	dB
Lower sidelobe					
35.06 ...37.90 (35.00 ...37.84) MHz		38.0	44.0	—	dB
37.90 ...39.81 (37.84 ...39.75) MHz		28.0	33.0	—	dB
Upper sidelobe					
47.31 ...50.72 (47.25 ...50.66) MHz		29.0	35.0	—	dB
50.72 ...55.06 (50.66 ...55.00) MHz		37.0	43.0	—	dB
Reflected wave signal suppression					
1.2 μs ... 6.0 μs after main pulse (test pulse 250 ns, carrier frequency 47.25 MHz)		42.0	52.0	—	dB
Group delay ripple (p-p)	$\Delta\tau$				
40.73 ...46.46 (40.67 ...46.40)MHz		—	50	—	ns
Impedance at 43.59 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1.5 \parallel 12.8	—	k Ω \parallel pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	3.2 \parallel 3.3	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K

Maximum ratings

Operable temperature range	T	-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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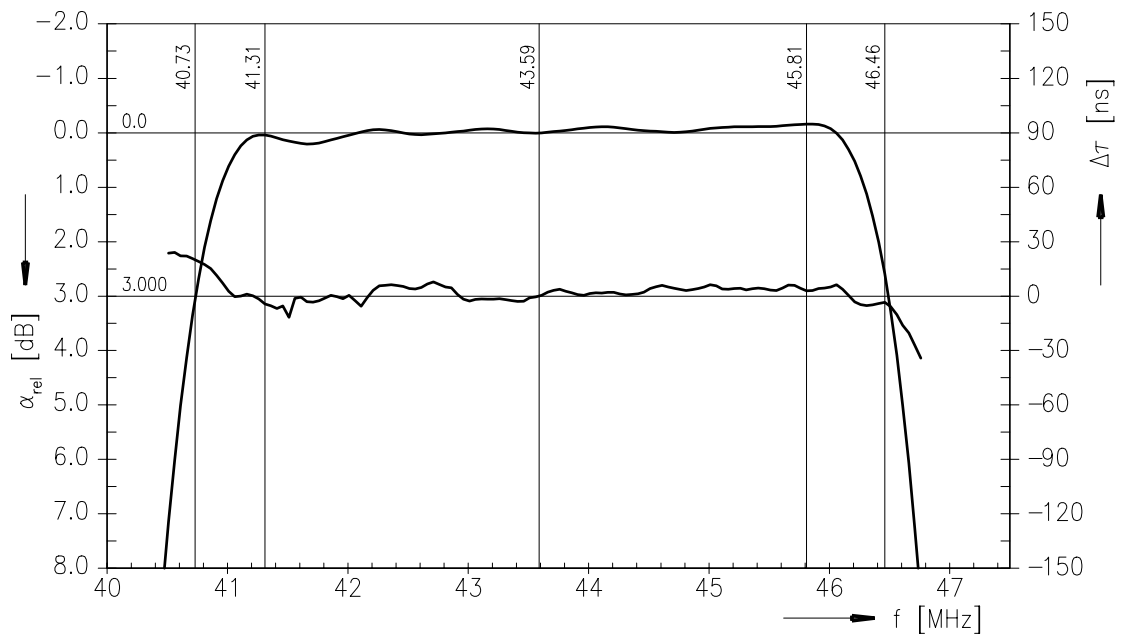
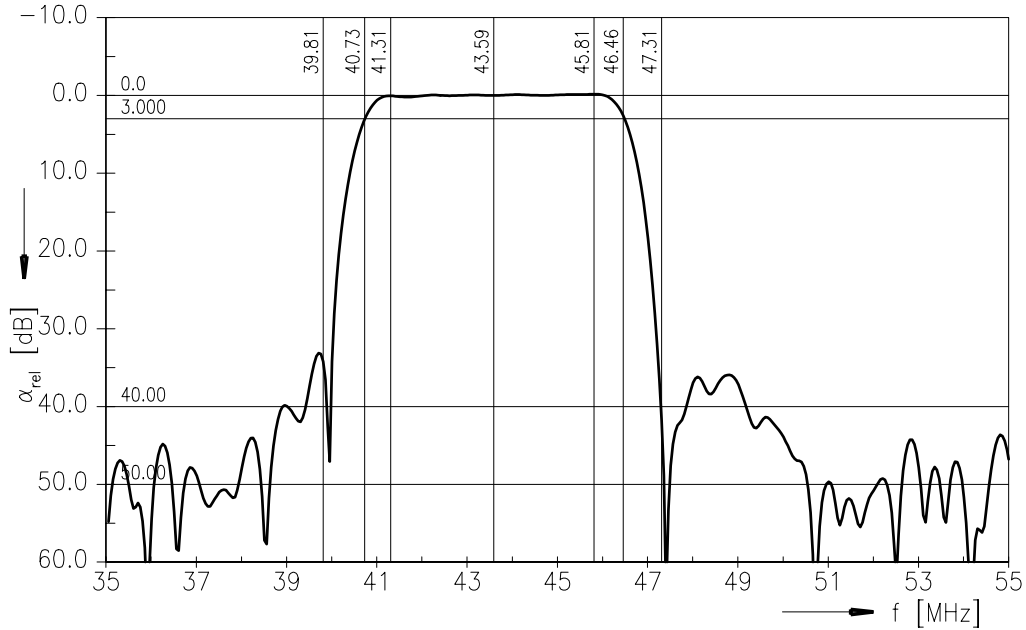
SAW bandpass filter

43.53 MHz

Data sheet



Frequency response



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SAW Components

X 7065 L

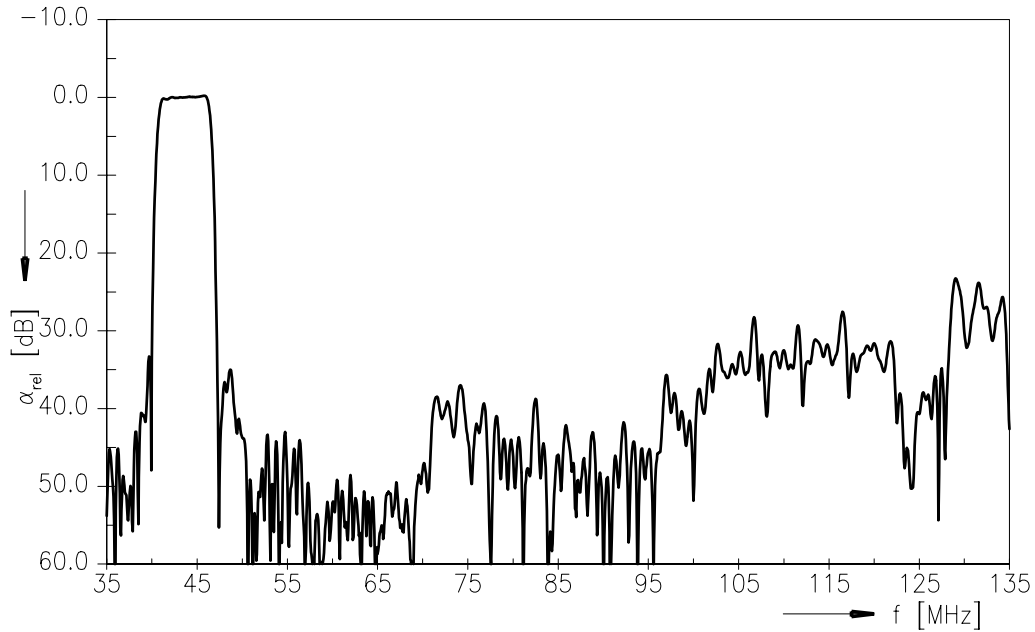
SAW bandpass filter

43.53 MHz

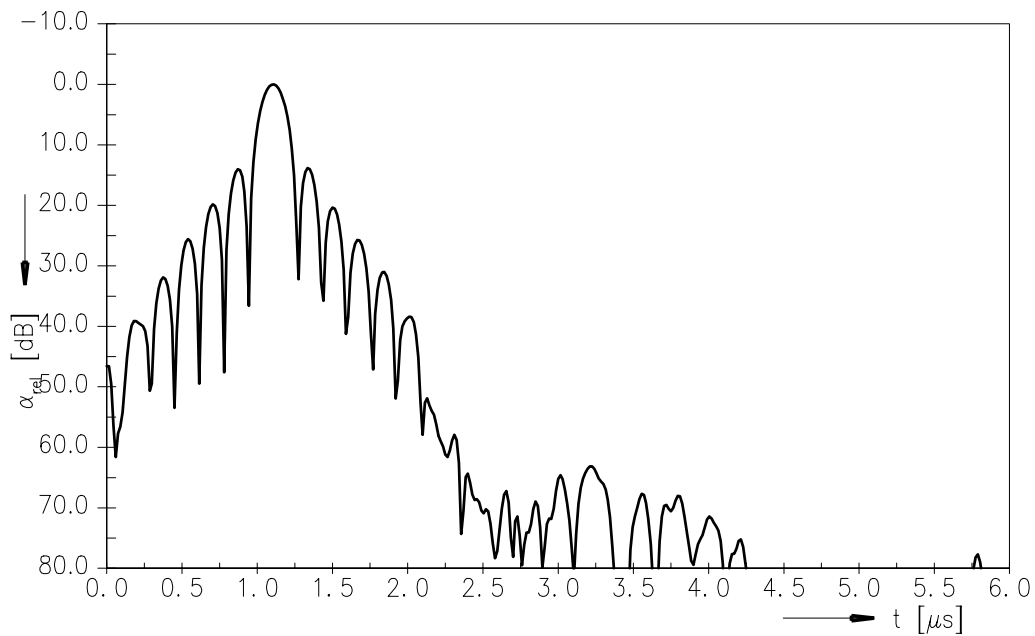
Data sheet



Frequency response



Time domain response



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SAW bandpass filter	43.53 MHz

Data sheet



References

Type	X 7065 L
Ordering code	B39435-X7065-L100
Marking and package	C61157-A2-A4
Packaging	F61074-V8058-Z000
Date codes	L_1126
S-parameters	X7065L_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 maximum concentration values for certain hazardous substances in electrical and electronic equipment."

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