

SAW Components

Data Sheet X 7001 L





SAW Components	X 7001 L
IF Bandpass Filter	30,72 MHz

Data Sheet

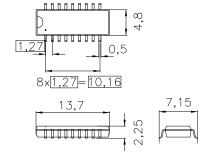
Duroplast package DIP18D

Features

- IF filter for Digital Audio Broadcasting
- Constant group delay
- Surface Mounted Technology (SMT)
- Standard IC small outline (SO) package

Terminals

■ Tinned CuFe alloy



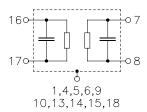
Dimensions in mm, approx. weight 0,5 g

Pin configuration

16,17 Input 7,8 Output

1,4,5,6,9,10,

13,14,15,18 Chip carrier - ground 2,3,11,12 Not connected



Туре	Ordering code	Marking and package according to	Packing according to
X 7001 L	B39307-X7001-L100	C61157-A2-A4	F61074-V8058-Z000

Maximum ratings

Operable temperature range	T_{A}	-40/+85	°C	
Storage temperature range	$T_{ m stg}$	-40/+85	°C	
DC voltage	V_{DC}	0	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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Characteristics

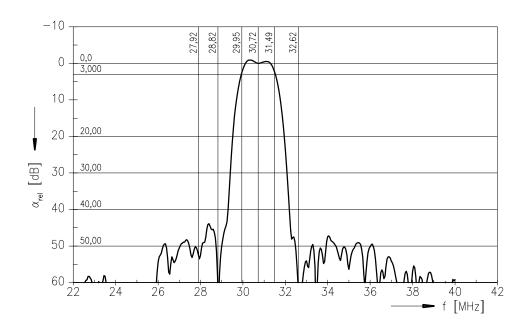
Reference temperature: $T_{\rm A} = 25\,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S} = 150\,\Omega$ Terminating load impedance: $Z_{\rm L} = 1\,{\rm k}\Omega$

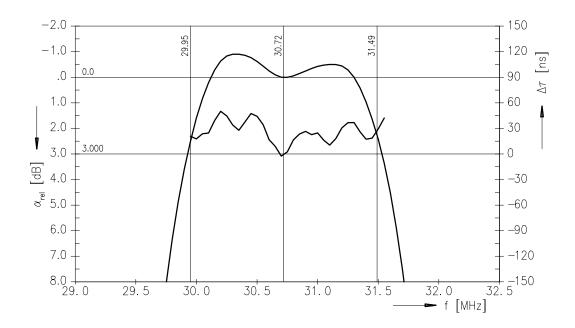
			min.	typ.	max.	
Center frequency		f _C	_	30,72	_	MHz
(center between 3 dB po	oints)	.0		33,. 2		
Insertion attenuation		α				
Reference level for the following data	30,72 MHz		19,3	20,8	22,3	dB
Pass bandwidth						
α _{rel} ≤3 dB		B_{3dB}	_	1,6	_	MHz
α _{rel} ≤20 dB		B_{20dB}	_	2,4	_	MHz
α _{rel} ≤30 dB		B _{30dB}	_	2,6	_	MHz
Relative attenuation		α_{rel}				
Lower sidelobe	22,00 27,92 MHz		40,0	47,0	_	dB
	27,92 28,82 MHz		37,0	44,0	_	dB
Lower sidelobe	32,62 42,00 MHz		40,0	47,0	_	dB
Reflected wave signal	suppression					
1,6 μs 6,0 μs after ma	ain pulse		38,0	45,0	_	dB
(test pulse 250 ns,						
carrier frequency 30,72	MHz)					
	,					
Group delay ripple (p-Aperture 50 kHz	p) 29,95 31,49 MHz	Δτ	_	50	_	ns
Impedance at 30,72 MH	 Hz					
•	$Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		_	2,0 19,8	_	kΩ pF
	$: Z_{\text{OUT}} = R_{\text{OUT}} C_{\text{OUT}}$		_	2,5 10,1	_	kΩ pF
Temperature coefficient of frequency		TC_{f}	_	-18	_	ppm/K
		•				l



Data Sheet

Frequency response

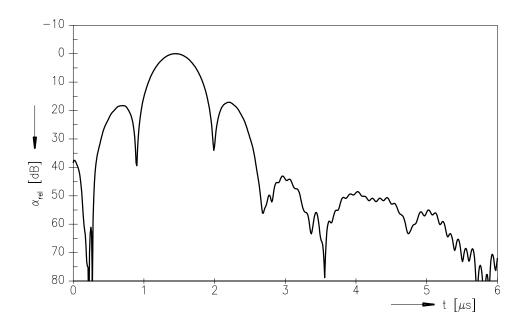






Data Sheet

Time domain response





Data Sheet

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