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SAW Components

EPCOS

Data Sheet X 7001 L

Data Sheel



SAW Components

IF Bandpass Filter

Data Sheet

Duroplast package DIP18D

X 7001 L

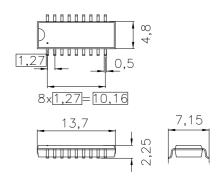
30,72 MHz

Features

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

Terminals

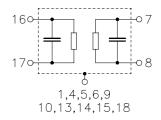
Tinned CuFe alloy



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	$T_{\rm stg}$	-40/+85	°C	
DC voltage	V _{DC}	0	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals



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Characteristics

$T_{A} = 25 \degree C$
$Z_{\rm S} = 150 \Omega$
$Z_{\rm L}$ = 1 k Ω

		min.	typ.	max.	
Center frequency	f _C	_	30,72		MHz
(center between 3 dB points)					
Insertion attenuation	α				
Reference level for the 30,72 M following data	1Hz	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 M	lHz	40,0	47,0	—	dB
27,92 28,82 M	lHz	37,0	44,0	—	dB
Lower sidelobe 32,62 42,00 M	lHz	40,0	47,0	—	dB
Reflected wave signal suppression					
1,6 μs 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 30,72 MHz)		38,0	45,0	—	dB
Group delay ripple (p–p)	Δτ				
Aperture 50 kHz 29,95 31,49 M	lHz	—	50		ns
Impedance at 30,72 MHz					
Input: $Z_{IN} = R_{IN} C_{IN}$		—	2,0 19,8		$k\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT} \parallel C_{OU}$	г	_	2,5 10,1		$k\Omega \parallel pF$
Temperature coefficient of frequency	TC _f		-18	—	ppm/K

3



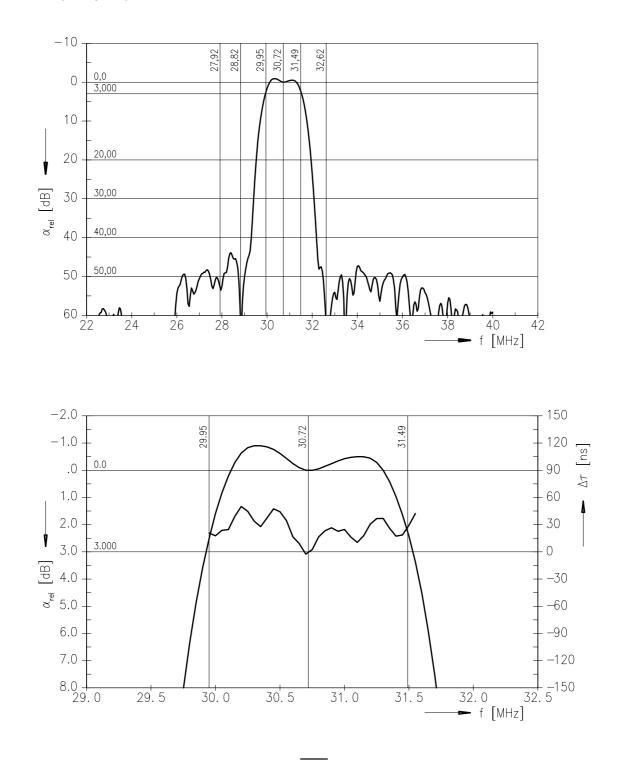
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Frequency response

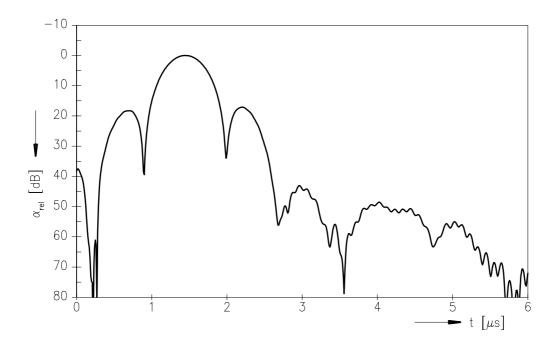




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Time domain response





X 7001

30,72 MHz

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