

SAW Components

Data Sheet X 7001 L





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

Data Sheet

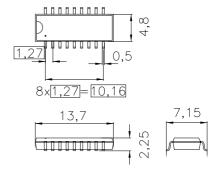
Duroplast package DIP18D

Features

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

Terminals

■ Tinned CuFe alloy



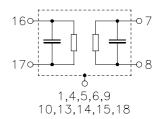
Dimensions in mm, approx. weight 0,5 g

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_{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: $Z_{\rm L} = 1\,{\rm k}\Omega$

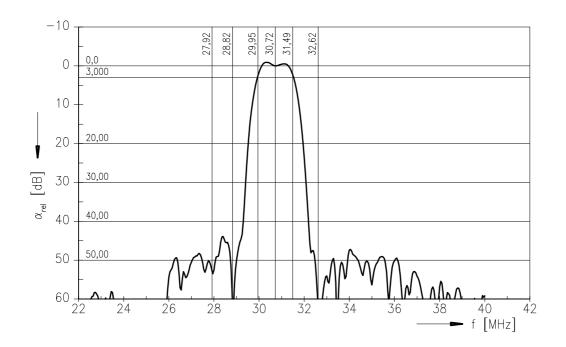
			min.	typ.	max.	
Center frequency (center between 3 dB point	nts)	f_C	_	30,72	_	MHz
Insertion attenuation Reference level for the following data	30,72 MHz	α	19,3	20,8	22,3	dB
$\begin{aligned} & \textbf{Pass bandwidth} \\ & \alpha_{\text{rel}} \leq & 3 \text{ dB} \\ & \alpha_{\text{rel}} \leq & 20 \text{ dB} \\ & \alpha_{\text{rel}} \leq & 30 \text{ dB} \end{aligned}$		$B_{ m 3dB}$ $B_{ m 20dB}$ $B_{ m 30dB}$	_ _ _	1,6 2,4 2,6	_ _ _	MHz MHz MHz
	n pulse	α_{rel}	40,0 37,0 40,0 38,0	47,0 44,0 47,0 45,0	_ _ _	dB dB dB
Impedance at 30,72 MHz	29,95 31,49 MHz	Δτ		50 2,0 19,8 2,5 10,1		ns $k\Omega \parallel pF$ $k\Omega \parallel pF$
Temperature coefficient of frequency		TC _f	_	-18		ppm/K

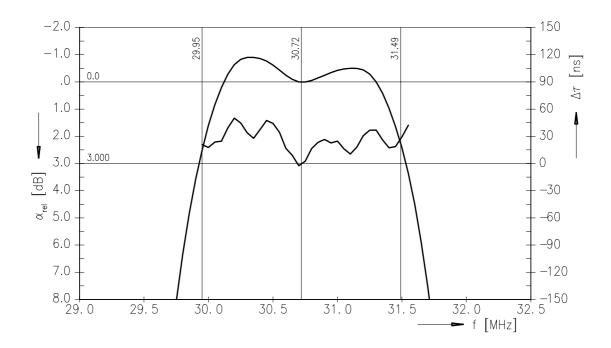


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Frequency response







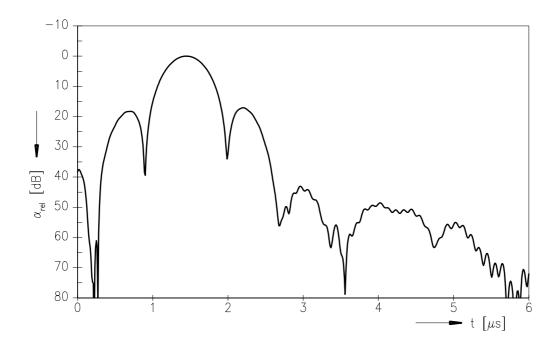
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Time domain response





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