# SAW Components

EPCOS

Data Sheet X 6874 D

Data Sheet





SAW Components	X 6874 D
Bandpass Filter	36,125 MHz

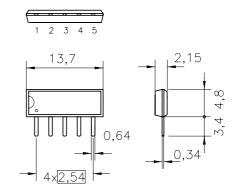
**Data Sheet** 

#### Features

- IF filter for digital cable TV
- Standard IC package

### Terminals

Tinned CuFe alloy

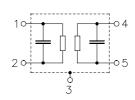


Duroplast package SIP5D

Dimensions in mm, approx. weight 0,5 g

#### **Pin configuration**

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



Туре	Ordering code	Marking and package according to	Packing according to		
X 6874 D	B39361-X6874-D100	C61157-A1-A18	F61074-V8049-Z000		

#### **Maximum ratings**

Operable temperature range	T <sub>A</sub>	-25/+65	°C	
Storage temperature range	$T_{stg}$	-40/+85	°C	
DC voltage	V <sub>DC</sub>	12	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals

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SAW Component	S						X	6874 D
Bandpass Filter							36,12	25 MHz
Data Sheet								
Characteristics								
Reference temperatu	re:		T۵	= 25 °(	C			
Terminating source in				= 50 Ω				
Terminating load imp	edance:			= 2 k $\Omega$				
				I		•		1
				¢	min.	typ.	max.	N 41 1-
Center frequency (center between 3 dB	points)			f <sub>C</sub>	36,07	36,125	36,18	MHz
Insertion attenuation	n			α				
Reference level for th	е	36,13	MHz		20,2	21,7	23,2	dB
following data								
Pass bandwidth								
α <sub>rel</sub> ≤ 1dB				B <sub>1dB</sub>	—	7,5	_	MHz
α <sub>rel</sub> ≤ 3dB				B <sub>3dB</sub>	—	8,0		MHz
α <sub>rel</sub> ≤ 30dB				B <sub>30dB</sub>	—	9,5	_	MHz
Relative attenuation	l			$\alpha_{rel}$				
		32,32	MHz		—	1,2		dB
		39,93	MHz		0,4	1,4	2,4	dB
		32,13			2,0	3,2	4,4	dB
		40,13			2,0	3,2	4,4	dB
		31,25			34,0	47,0	_	dB
		47,25			42,0	55,0		dB
Lower sidelobe		29,50			38,0	45,0		dB
		31,25			34,0	41,0	_	dB
Upper sidelobe	41,00 .				33,0	40,0		dB
	44,00 .	50,00	MHZ		38,0	47,0		dB
Reflected wave sign	al suppress	ion						
1,1 $\mu s$ 6,0 $\mu s$ after	main pulse				42,0	52,0		dB
(test pulse 250 ns,								
carrier frequency 36,7	125 MHz)							
Feedthrough signal	suppression	า						
1,3 μs 1,2 μs befor	e main pulse				50,0	56,0		dB
(test pulse 250 ns,								
carrier frequency 36,7	125 MHz)							
Group delay ripple (	р-р)			Δτ				
	32,13 .	40,13	MHz		—	40	_	ns
Impedance at 36,125	5 MHz							
-	t: $Z_{\rm IN} = F$		N		_	3,6   13,0		kΩ    pF
	Sout: $Z_{OUT} = R$				_	2,9    3,9		kΩ    pF
			501	TO				
Temperature coeffic	ient of frequ	iency		TC <sub>f</sub>		-72	—	ppm/K



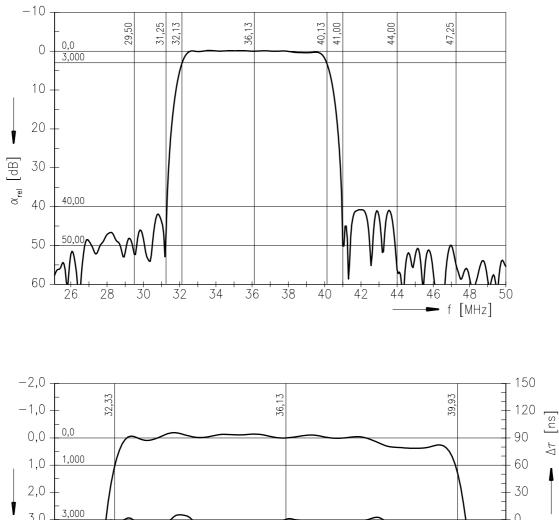
SAW Components

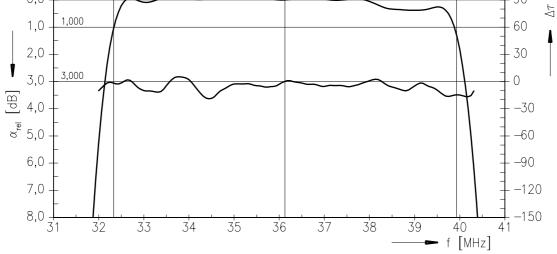
**Bandpass Filter** 

X 6874 D 36,125 MHz

Data Sheet

**Frequency response** 





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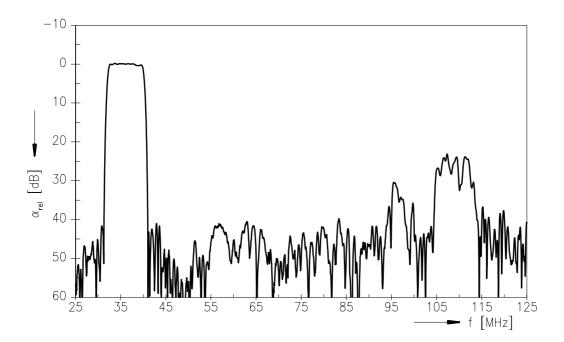


SAW Components	X 6874 D
Bandpass Filter	36,125 MHz

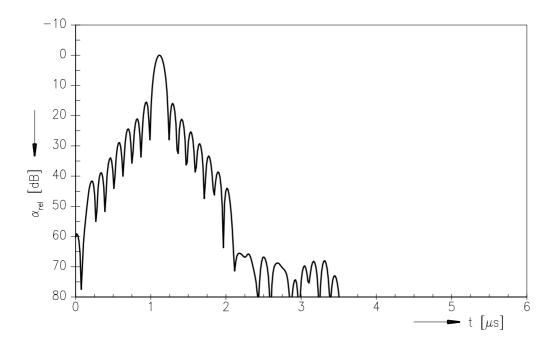
## **Bandpass Filter**

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## Frequency response



#### Time domain response



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X 6874 D

36,125 MHz

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**Bandpass Filter** 

**Data Sheet** 

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