

SAW Components

Data Sheet X 6874 D





SAW Components	X 6874 D
Bandpass Filter	36,125 MHz

Data Sheet

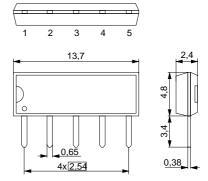
Duroplast package SIP5D

Features

- IF filter for digital cable TV
- Standard IC package

Terminals

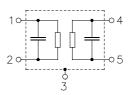
■ Tinned CuFe alloy



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-N201	C61157-A1-A21	F61074-V8049-Z000		

Maximum ratings

Operable temperature range	T_{A}	-25/+65	°C	
Storage temperature range	$T_{ m stg}$	-40/+85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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Characteristics

 T_{A} = 25 °C Z_{S} = 50 Ω Z_{L} = 2 k Ω || 3 pF Reference temperature: Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Center frequency (center between 10 dB p	points)		f _C	36,07	36,125	36,18	MHz
Insertion attenuation			α				
Reference level for the following data	36,13	MHz		20,2	21,7	23,2	dB
Pass bandwidth							
$\alpha_{\text{rel}} \leq 1 \text{dB}$			B _{1dB}	_	7,5	_	MHz
$\alpha_{rel} \leq 3dB$			B _{3dB}	_	8,0	_	MHz
$\alpha_{rel} \leq 30dB$			B _{30dB}	_	9,5	_	MHz
Relative attenuation			α_{rel}				
	32,32			_	1,2	_	dB
	39,93			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	25,00 29,50			38,0	45,0	_	dB
	29,50 31,25			34,0	41,0	_	dB
Upper sidelobe	41,00 44,00			33,0	40,0	_	dB
	44,00 50,00	WHZ		38,0	47,0	_	dB
Reflected wave signal 1,1 μs 6,0 μs after ma (test pulse 250 ns, carrier frequency 36,13	in pulse			42,0	52,0	_	dB
Feedthrough signal su 1,3 μs 1,2 μs before n (test pulse 250 ns, carrier frequency 36,13	nain pulse			50,0	56,0	_	dB
Group delay ripple (p-p	o)		Δτ				
	32,13 40,13	MHz			40		ns
Impedance at 36,13 MH							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	3,6 13,0	_	$k\Omega \parallel pF$
Output:	$Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_0$	TUC			2,9 3,9		$k\Omega \parallel pF$
Temperature coefficient of frequency			TC _f	_	-72	_	ppm/K

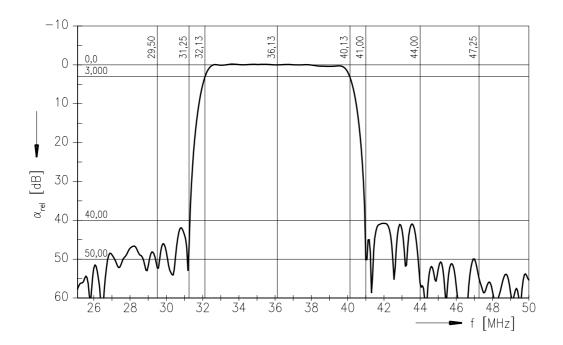


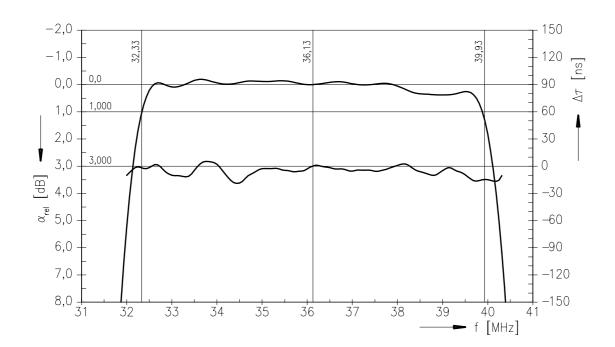
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Frequency response





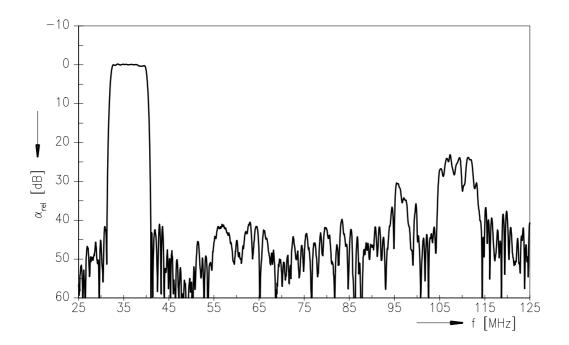


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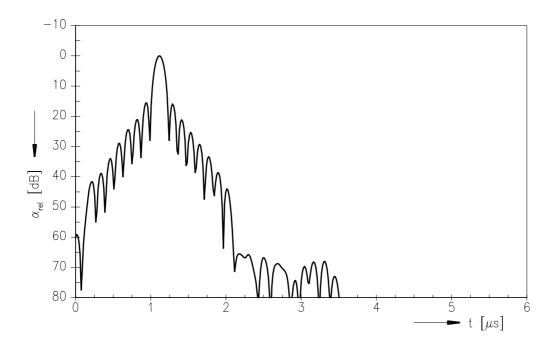
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Frequency response



Time domain response





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