

SAW Components

Data Sheet X 6874 D





Data Sheet

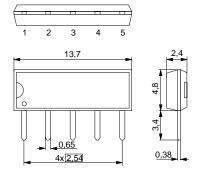
Duroplast package SIP5D

Features

- IF filter for digital cable TV
- Standard IC package

Terminals

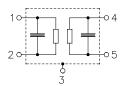
■ Tinned CuFe alloy



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	$T_{\rm stg}$	-40/+85	°C	
DC voltage	$V_{\rm DC}$	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



SAW Components X 6874 D 36,125 MHz **Bandpass Filter**

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Characteristics

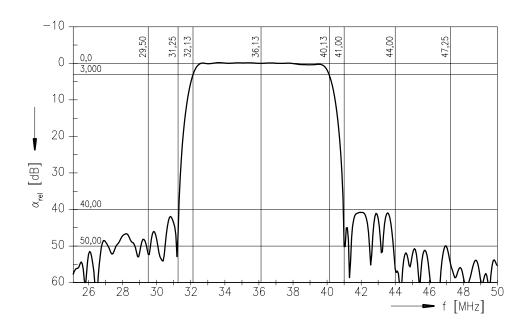
 T_{A} = 25 °C Z_{S} = 50 Ω Z_{L} = 2 k Ω || 3 pF Reference temperature: Terminating source impedance: Terminating load impedance:

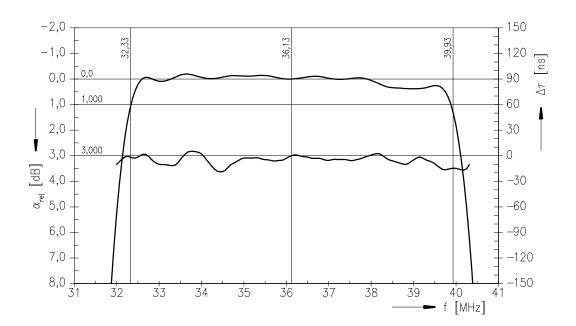
				min.	typ.	max.	
Center frequency (center between 10 dB points)			f _C	36,07	36,125	36,18	MHz
Insertion attenuation			α				
Reference level for the following data	36,13	MHz		20,2	21,7	23,2	dB
Pass bandwidth							
$\alpha_{rel} \leq 1 dB$			B _{1dB}	_	7,5	_	MHz
$\alpha_{\text{rel}} \leq 3\text{dB}$			B _{3dB}	_	8,0	_	MHz
$\alpha_{\text{rel}} \leq 30\text{dB}$			B _{30dB}	_	9,5	_	MHz
Relative attenuation			α_{rel}				
	32,32	MHz		_	1,2	_	dB
	39,93 1	MHz		0,4	1,4	2,4	dB
	32,13	MHz		2,0	3,2	4,4	dB
	40,13	MHz		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 l			34,0	41,0	_	dB
Upper sidelobe	41,00 44,00 !			33,0	40,0	_	dB
	44,00 50,00 I	MHz		38,0	47,0	_	dB
Reflected wave signal suppression 1,1 μs 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 36,13 MHz)				42,0	52,0	_	dB
Feedthrough signal suppression 1,3 μs 1,2 μs before main pulse (test pulse 250 ns, carrier frequency 36,13 MHz)				50,0	56,0	_	dB
Group delay ripple (p-p)			Δτ				
. ,	32,13 40,13 [MHz		_	40	_	ns
Impedance at 36,13 MH	Hz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	3,6 13,0	_	kΩ pF
Output	$Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OU}}$	UT		_	2,9 3,9	_	kΩ pF
Temperature coefficient	nt of frequency		TC _f	_	-72	_	ppm/K



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Frequency response

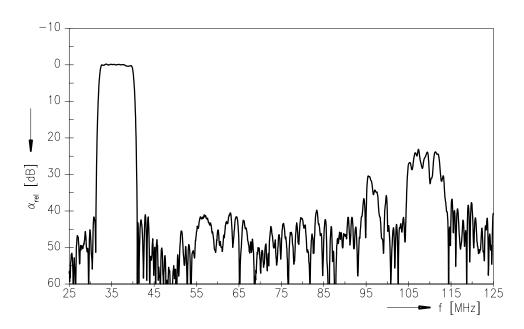




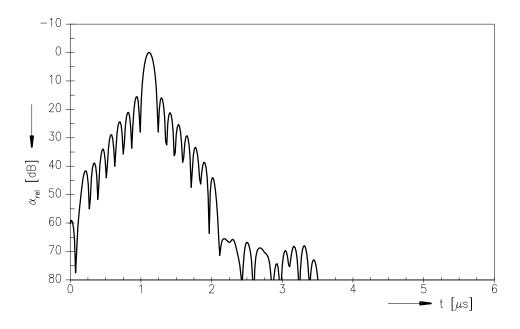


Data Sheet

Frequency response



Time domain response





Data Sheet

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