

# SAW Components

Data Sheet X 6867 D





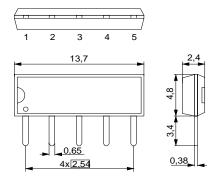
SAW Components	X 6867 D
Bandpass Filter	36,00 MHz

**Data Sheet** 

Duroplast package SIP5D

### **Features**

- IF filter for digital TV
- Optimized for cascade of two devices
- Optimized for balanced to balanced operation
- Standard IC package



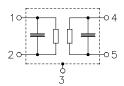
#### **Terminals**

■ Tinned CuFe alloy

Dimensions in mm, approx. weight 0,5 g

## Pin configuration

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



Туре	Ordering code	Marking and package according to	Packing according to		
X 6867 D	B39360-X6867-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	$V_{\rm DC}$	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



**Data Sheet** 

### Characteristics

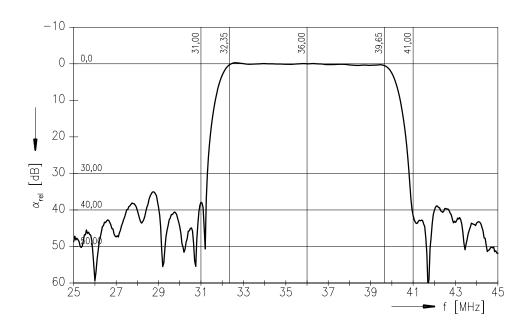
Reference temperature:  $T_{\rm A}=25\,^{\circ}{\rm C}$ Terminating source impedance:  $Z_{\rm S}=50\,\Omega$ Terminating load impedance:  $Z_{\rm L}=2\,{\rm k}\Omega\,||\,3\,{\rm pF}$ 

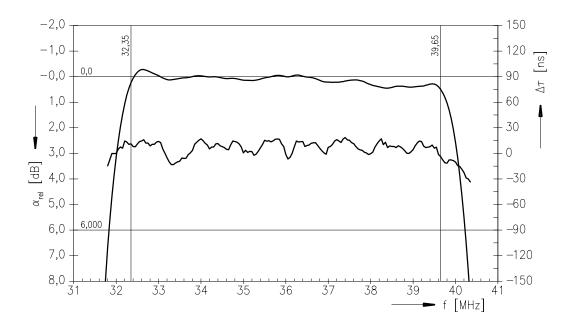
				min.	typ.	max.	
Insertion attenuation	20.00	N 41 1-	α	04.4	00.0	04.4	-ID
Reference level for the following data	36,00	MHZ		21,1	22,6	24,1	dB
Tollowing data							
Amplitude ripple (p-p)			Δα				
	32,35 39,65	MHz		_	1,0	_	dB
Pass bandwidth							
$\alpha_{rel} \le 1,5 \text{ dB}$			B <sub>1,5dB</sub>	_	7,8	_	MHz
$\alpha_{\text{rel}} \leq 3 \text{ dB}$			$B_{3dB}$	_	8,1	_	MHz
$\alpha_{\rm rel} \leq$ 15 dB			B <sub>15dB</sub>	_	9,0	_	MHz
$\alpha_{\rm rel} \leq 30 \; {\rm dB}$			B <sub>30dB</sub>	_	9,5	_	MHz
Relative attenuation			$\alpha_{rel}$				
	31,65	MHz		7,0	8,7	_	dB
	40,35	MHz		7,0	10,7	_	dB
	31,30	MHz		21,5	24,5	_	dB
	40,70	MHz		21,0	27,0	_	dB
Lower sidelobe	25,00 31,00	MHz		33,0	38,0		
Upper sidelobe	41,00 45,00	MHz		31,0	36,0		
Reflected wave signal suppression 1,2 μs 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 36,00 MHz)				42,0	46,0	_	dB
Feedthrough signal su 1,3 µs 1,2 µs before r (test pulse 250 ns, carrier frequency 36,00	ppression nain pulse MHz)			_	50,0	_	dB
Group delay ripple (p-p		N 41 1-	Δτ		50		
32,35 39,65 MHz				_	50	_	ns
Impedance at 36,00 MHz Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	4,0    11,2	_	  kΩ    pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			_	3,5    3,0	_	kΩ    pF	
Temperature coefficient of frequency $TC_{\rm f}$				_	-72	_	ppm/K
- p						l	1



**Data Sheet** 

### Frequency response

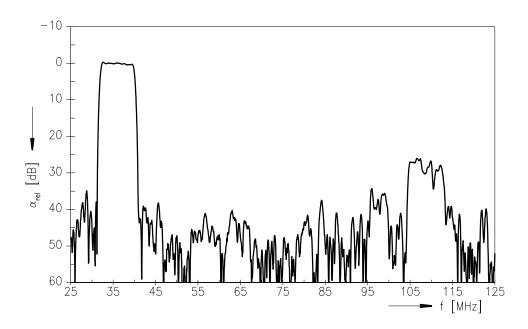




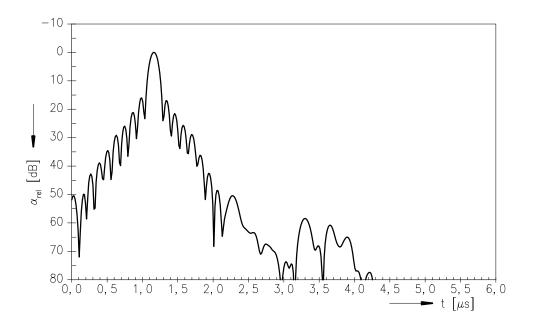


**Data Sheet** 

## Frequency response



## Time domain response





**Data Sheet** 

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