

SAW Components

Data Sheet X 6865 D





SAW Components	X 6865 D
Bandpass Filter	36,125 MHz

Data Sheet

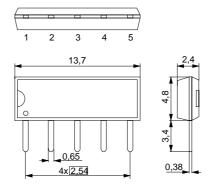
Duroplast package SIP5D

Features

3 dB bandwidth: 6,0 MHzStandard IC package

Terminals

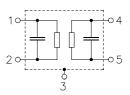
■ Tinned CuFe alloy



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 6865 D	B39361-X6865-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



SAW Components X 6865 D

Bandpass Filter 36,125 MHz

Data Sheet

Characteristics

 $\begin{array}{lll} \mbox{Reference temperature:} & T_{\mbox{A}} & = 25 \ ^{\circ}\mbox{C} \\ \mbox{Terminating source impedance:} & Z_{\mbox{S}} & = 50 \ \Omega \\ \mbox{Terminating load impedance:} & Z_{\mbox{L}} & = 2 \ \mbox{k}\Omega \ || \ 3 \ \mbox{pF} \\ \end{array}$

					min.	typ.	max.	
Center frequency				f_C	_	36,125	_	MHz
(center between 3 dB pe	oints)							
Insertion attenuation				α				
Reference level for the		36,13	MHz		16,1	17,6	19,1	dB
following data								
Pass bandwith								
α _{rel} ≤3 dB				B _{3dB}	5,8	6,0	6,2	MHz
$\alpha_{\text{rel}} \leq 30 \text{ dB}$				B _{30dB}	7,4	7,6	7,8	MHz
Relative attenuation				α_{rel}				
		33,59			-1,1	0,1	1,3	dB
		38,65			-0,8	0,4	1,6	dB
		33,12			1,3	2,5	3,7	dB
		39,12			1,9	3,1	4,3	dB
Lower sidelobe	25,00				38,0	44,0	_	dB
Upper sidelobe	40,12				36,0	40,0	_	dB
	41,42		MHz		38,0	45,0	_	dB
Reflected wave signal		n						
1,3 μs 6,0 μs after ma	in pulse				42,0	52,0		dB
(test pulse 250 ns,								
carrier frequency 36,13 MHz)								
Feedthrough signal su					=0.0			
1,3 μs 1,2 μs before main pulse				50,0	56,0	_	dB	
(test pulse 250 ns,								
carrier frequency 36,13	,							
Group delay ripple (p-p)				Δτ		40		
33,12 39,12 MHz					_	40		ns
Impedance at 36,13 MHz								
Input: $Z_{IN} = R_{IN} C_{IN}$				_	2,2 15,3	_	$k\Omega \parallel pF$	
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				_	1,4 5,6	_	$k\Omega \parallel pF$	
Temperature coefficient of frequency			TC _f	_	-72	_	ppm/K	

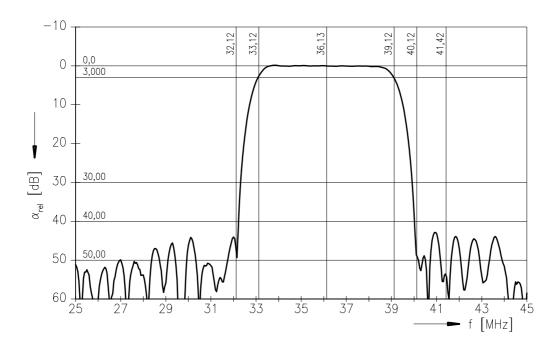


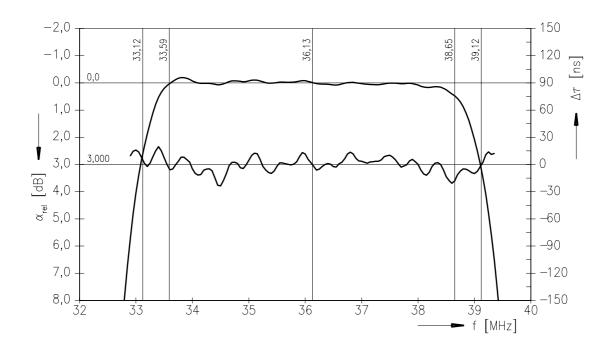
SAW Components X 6865 D

Bandpass Filter 36,125 MHz

Data Sheet

Frequency response





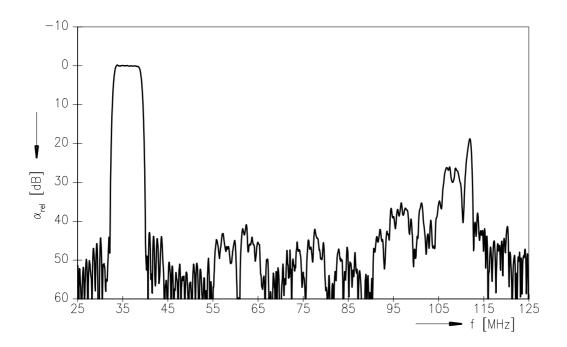


SAW Components X 6865 D

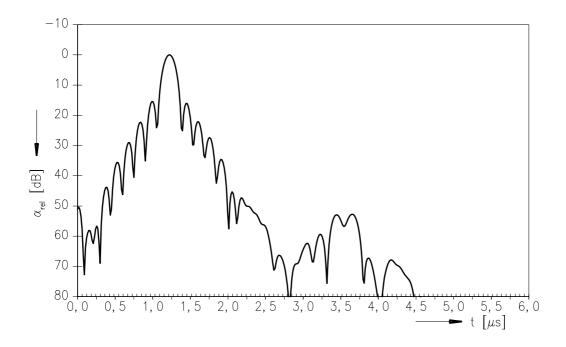
Bandpass Filter 36,125 MHz

Data Sheet

Frequency response



Time domain response





SAW Components X 6865 D 36,125 MHz

Data Sheet

Bandpass Filter

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE MM PD P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2004. Reproduction, publication and dissemination of this data sheet, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.