

SAW Components

Data Sheet X 6959 D





SAW Components

Low group delay ripple

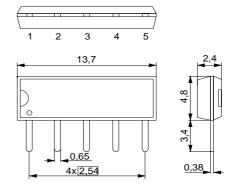
Standard IC package

Bandpass Filter

Data Sheet

Features

Duroplast package SIP5D



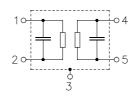
Terminals

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 6959 D	B39440-X6959-N201	C61157-A1-A21	F61074-V8049-Z000

Maximum ratings

Operable temperature range	T _A	-25/+65	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	5	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals

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SAW Components					Х	6959 D
Bandpass Filter					44,0	00 MHz
Data Sheet						
Characteristics						
Reference temperature: Terminating source imped Terminating load impeda	dance: $Z_{\rm S}$	= 25 °C = 50 Ω = 2 kΩ				
			min.	typ.	max.	
Center frequency (center between 10 dB p	oints)	f _C	_	44,00	_	MHz
Insertion attenuation Reference level for the following data	44,00 MHz	α	13,3	14,8	16,3	dB
Pass bandwith						
$\alpha_{rel} \le 3 \text{ dB}$		B _{3dB}	—	1,7	—	MHz
$\alpha_{rel} \le 6 \text{ dB}$		B _{6dB}		2,0	—	MHz
$\alpha_{rel} \le 30 \text{ dB}$		B _{30dB}	—	2,9	—	MHz
Relative attenuation		α_{rel}				
	35,00 41,30 MHz		38,0	43,0	—	dB
	41,30 42,30 MHz		36,0	43,0	—	dB
Upper sidelobe						
	45,80 47,20 MHz		33,0	39,0	—	dB
	47,20 55,00 MHz		39,0	45,0	—	dB
Group delay ripple (p-p)		Δτ				
Aperture 50 kHz	43,00 45,00 MHz		_	40	_	ns
Impedance at 44,00 MHz	2					
	$Z_{\rm IN} = R_{\rm IN} \parallel C_{\rm IN}$		_	1,8 12,8	—	kΩ pF
Output:	$Z_{OUT} = R_{OUT} \parallel C_{OUT}$		_	0,9 3,8	—	$k\Omega \parallel pF$
Temperature coefficient	of frequency	TC _f		-72		ppm/K

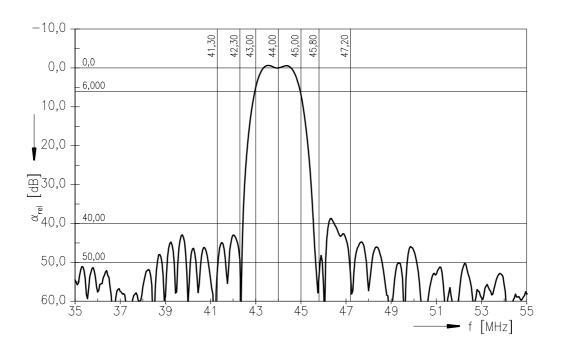


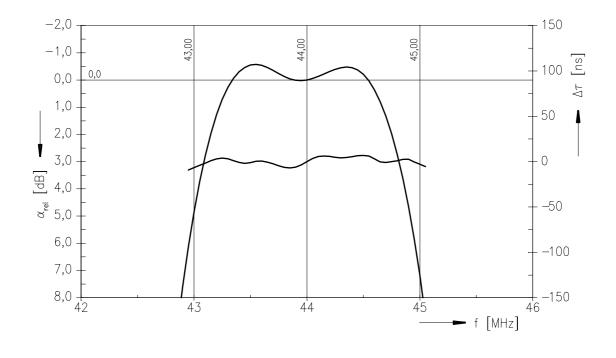
Bandpass Filter

X 6959 D 44,00 MHz

Data Sheet

Frequency response





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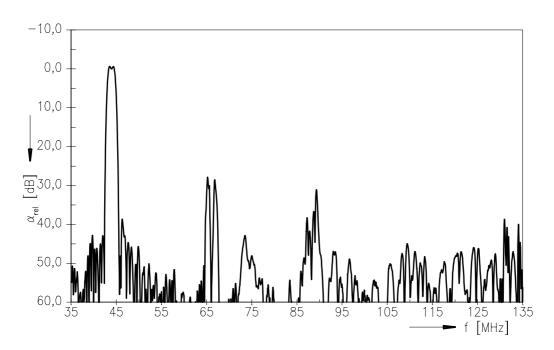
Mar 04, 2005



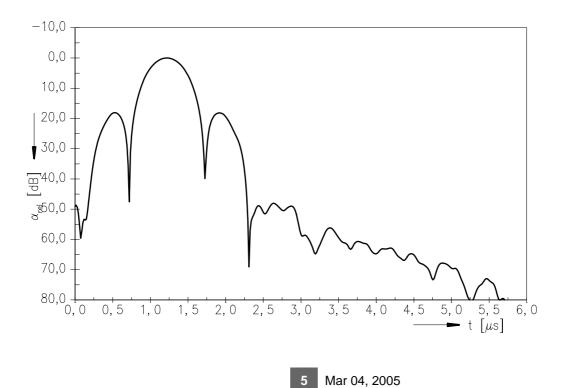
SAW Components	X 6959 D
Bandpass Filter	44,00 MHz

Data Sheet

Frequency response



Time domain response





SAW Components	X 6959 D
Bandpass Filter	44,00 MHz

Data Sheet

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

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