

SAW Components

Data Sheet X 6959 D





SAW Components	X 6959 D
Bandpass Filter	44,00 MHz

Data Sheet

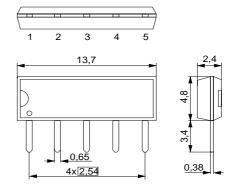
Duroplast package SIP5D

Features

- Low group delay ripple
- Standard IC package

Terminals

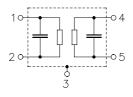
■ Tinned CuFe alloy



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

Maximum ratings

Operable temperature range	T_{A}	-25/+65	°C	
Storage temperature range	$T_{ m stg}$	-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

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.	
Center frequency		f_C	_	44,00	_	MHz
(center between 10 dB po	ints)					
Insertion attenuation		α				
Reference level for the following data	44,00 MHz		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
$\alpha_{\text{rel}} \leq 30 \text{ dB}$		B _{30dB}	_	2,9	_	MHz
Relative attenuation		$lpha_{rel}$				
Lower sidelobe						
	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						
Input: Z	$ C_{\rm IN} = R_{\rm IN} C_{\rm IN} $		_	1,8 12,8	_	$k\Omega \parallel pF$
Output: Z	$C_{\text{OUT}} = R_{\text{OUT}} C_{\text{OUT}}$			0,9 3,8	_	kΩ pF
Temperature coefficient of frequency		TC _f	_	-72	_	ppm/K

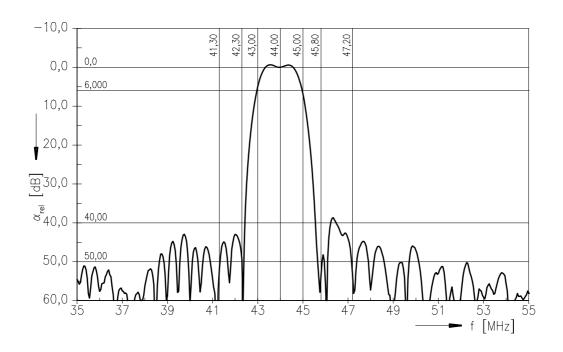


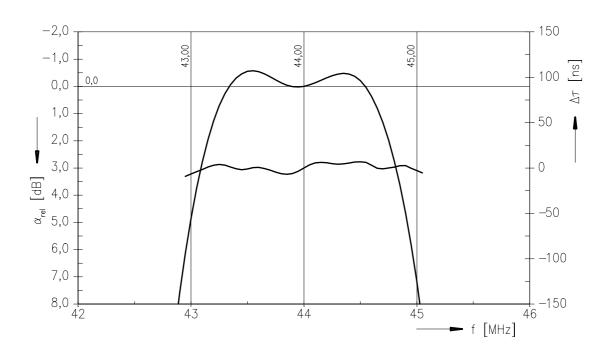
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Frequency response







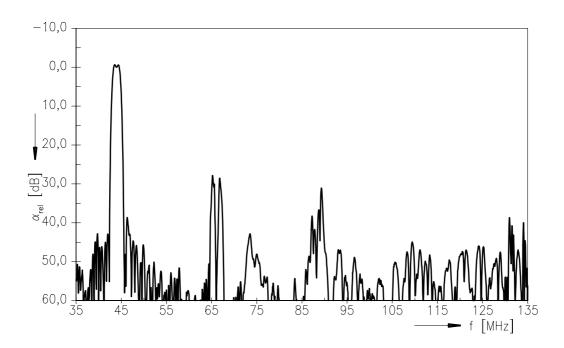
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Bandpass Filter

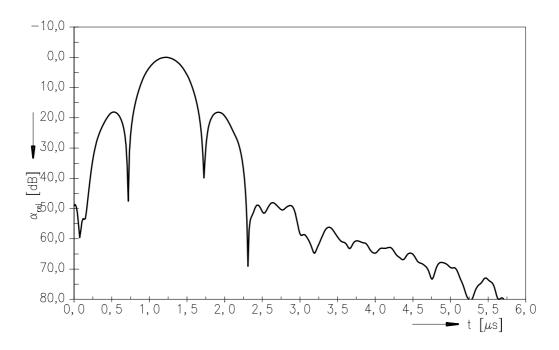
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Frequency response



Time domain response





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