

SAW multimedia filters

Series/Type: X6941D

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39440X6941N201		2011-01-14	2011-09-30	2012-09-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



SAW ComponentsX 6941 DBandpass Filter44,00 MHz

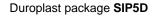
Data Sheet

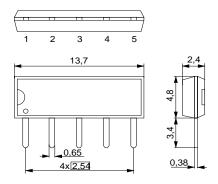
Standard

HDTV

Features

- Constant group delay
- Optimized for cascade of two devices
- Optimized for balanced to balanced operation
- Standard IC package





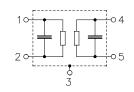
Terminals

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 6941 D	B39440-X6941-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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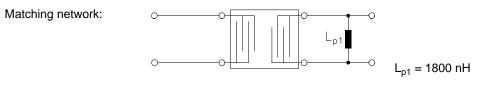


SAW Components	X 6941 D
Bandpass Filter	44,00 MHz
Data Sheet	

Characteristics

Reference temperature:	$T_{A} = 25 \degree C$
Terminating source impedance:	$Z_{S} = 50 \Omega$
Terminating load impedance:	$Z_{L} = 2 k\Omega \parallel 3 pF$ and matching network
	min. typ. max.

Insertion attenuation				α				
Reference level for the		44,00	MHz		18,5	20,0	21,5	dB
following data								
Amplitude ripple (p-p)				$\Delta \alpha$				
	41,60	46,40	MHz			0,4	—	dB
Relative attenuation				α_{rel}				
		40,75	MHz		25,0	32,0	—	dB
		41,31	MHz		1,1	1,6	2,1	dB
		41,43	MHz		-0,4	0,3	1,0	dB
		41,60	MHz		-0,4	0,1	0,6	dB
		46,40	MHz		-0,4	0,1	0,6	dB
		46,57	MHz		0,1	0,6	1,1	dB
		46,69	MHz		1,5	2,0	2,5	dB
		47,25	MHz		25,0	36,0	—	dB
Lower sidelobe	35,00	39,10	MHz		34,0	42,0	—	dB
	39,10	40,35	MHz		27,0	32,0	—	dB
Upper sidelobe	47,65	48,65	MHz		25,0	30,0	—	dB
	48,65	55,00	MHz		32,0	37,0		dB
Reflected wave signa	l suppressio	on						
1,5 μs 6,0 μs after m	ain pulse				42,0	56,0	_	dB
(test pulse 250 ns,								
carrier frequency 44,00	MHz)							
Group delay ripple (p-	·p)			Δτ				
	41,31	46,69	MHz		_	30	80	ns
Impedance at 44,00 M								
Input: $Z_{IN} = R_{IN} C_{IN}$				—	1,9 22,2	—	kΩ pF	
Outpu	t: $Z_{OUT} = R_{C}$		OUT		—	6,1 5,7		kΩ pF
Temperature coefficient of frequency			$TC_{\rm f}$		-18	_	ppm/K	



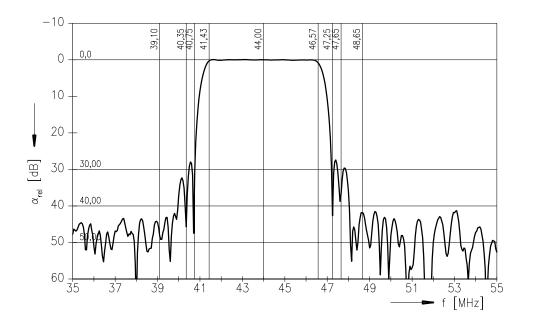
Dec 08, 2003

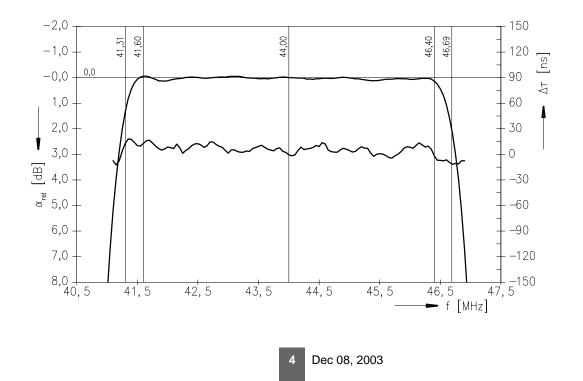


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Bandpass Filter	44,00 MHz

Data Sheet

Frequency response



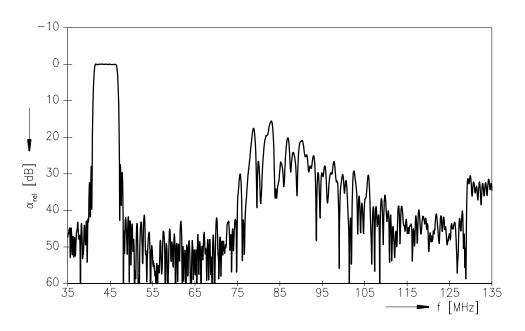




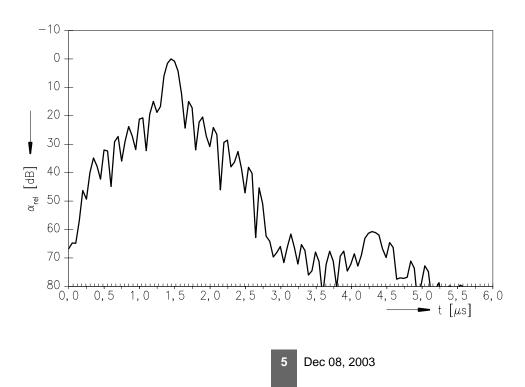
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Data Sheet

Frequency response



Time domain response





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

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This brochure replaces the previous edition.

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