

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









SAW multimedia filters

Series/Type: X6964D

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39438X6964N201		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.

© EPCOS AG 2015. Reproduction, publication and dissemination of this publication, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

EPCOS AG is a TDK Group Company.



SAW Components	X 6964 D
Bandpass Filter	43,75 MHz

Data Sheet

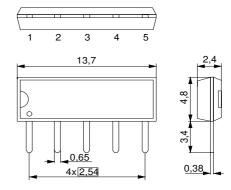
Duroplast package SIP5D

Features

- IF filter for digital cable TV
- Standard IC package

Terminals

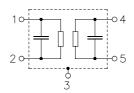
■ Tinned CuFe alloy



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 6964 D	B39438-X6964-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 6964 D

Bandpass Filter 43,75 MHz

Data Sheet

Characteristics

Reference temperature: $T_{\rm A}=25~(45)~^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S}=50~\Omega$ Terminating load impedance: $Z_{\rm L}=2~{\rm k}\Omega~||~3~{\rm pF}$

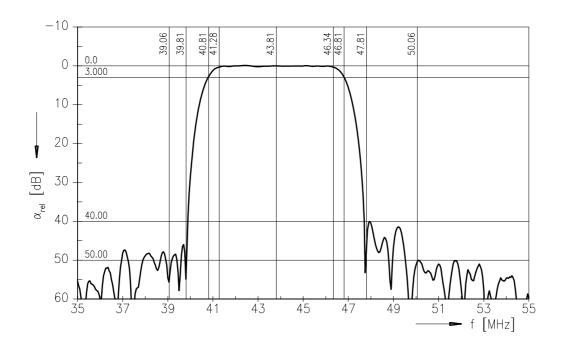
		min.	typ.	max.	
Center frequency (center between 10 dB points)	f _C	(43,68)	(43,75)	(43,82)	MHz
Insertion attenuation Reference level for the following data 43,81 (43,75) MHz	α	13,3	14,8	16,3	dB
Pass bandwidth $ \alpha_{\text{rel}} \leq 3 \text{dB} \\ \alpha_{\text{rel}} \leq 30 \text{dB} $	B _{3dB}	_ _	6,0 7,6	_ _	MHz MHz
Relative attenuation 41,28 (41,22) MHz		_	0,3	_	dB
46,34 (46,28) MHz 40,81 (40,75) MHz 46,81 (46,75) MHz 39,81 (39,75) MHz 47,81 (47,75) MHz		-0,8 1,5 1,5 38,0 37,0	0,2 2,7 2,7 53,0 48,0	1,2 3,9 3,9 —	dB dB dB dB
Lower sidelobe 35,06 39,06 (35,00 39,00) MHz 39,06 39,81 (39,00 39,75) MHz		42,0 37,0	48,0 46,0	_ _	dB dB
Upper sidelobe 47,81 50,06 (47,75 50,00) MHz 50,06 55,06 (50,00 55,00) MHz		36,0 42,0	41,0 48,0	_ _	dB dB
Reflected wave signal suppression 1,3 μs 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 43,81 MHz)		42,0	52,0	_	dB
Feedthrough signal suppression 1,3 μs 1,2 μs before main pulse (test pulse 250 ns, carrier frequency 43,81 MHz)		50,0	56,0	_	dB
Group delay ripple (p-p) 40,81 46,81 (40,75 46,75) MHz	Δτ	_	40	_	ns
Impedance at 43,81 MHz Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$ Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$			1,1 16,4 1,1 5,0	_ _	$k\Omega \parallel pF$ $k\Omega \parallel pF$
Temperature coefficient of frequency	TC_{f}	_	- 72	_	ppm/K

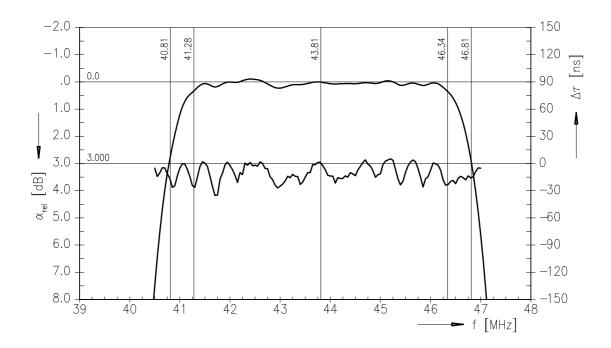


SAW Components X 6964 D
Bandpass Filter 43,75 MHz

Data Sheet

Frequency response



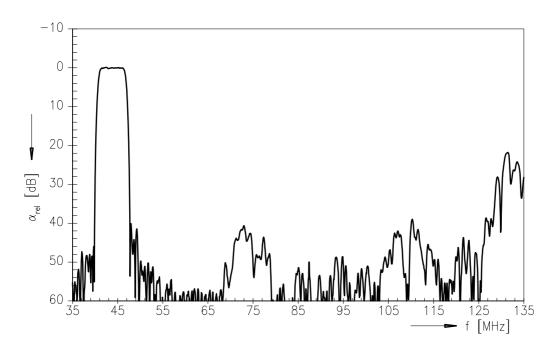




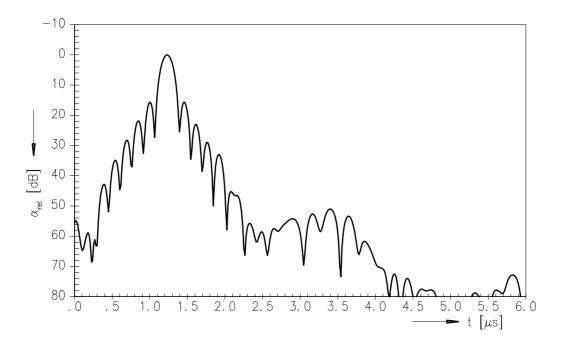
SAW Components X 6964 D
Bandpass Filter 43,75 MHz

Data Sheet

Frequency response



Time domain response





SAW Components X 6964 D
Bandpass Filter 43,75 MHz

Data Sheet

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 brochure 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.