

SAW Components

SAW filter

Short range devices

Series/type: B3710

Ordering code: B39431B3710U410

Date: March 16, 2007

Version: 2.0

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SAW Components B3710

SAW filter 433.92 MHz

Data sheet



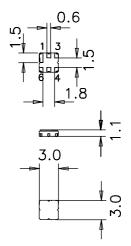
Application

- Low-loss RF filter for remote control receivers
- lacktriangle No matiching network required for operation at 50Ω



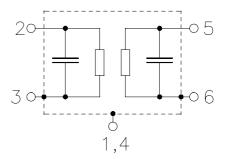
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Lead free soldering compatible with J STD20C
- Passivation layer Elpas
- AEC-Q200 qualified component family
- Electrostactic Sensitive Device (ESD)



Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Ground (case)





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Data sheet = MD

Characteristics

Temperature range for specification: $T = -40 \,^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50\Omega$ Terminating load impedance: $Z_L = 50\Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f _C	_	433.92	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
433.00 434.71 MHz	<u>.</u>	_	2.0	2.7	dB
Amplitude ripple (p-p)	Δα				
433.00 434.71 MHz	<u>,</u>	_	0.5	1.3	dB
Relative attenuation (relative to α_{min})	α_{rel}				
10.00 380.00 MHz	<u>-</u>	55	60	_	dB
380.00 413.50 MHz	<u>-</u>	49	53	_	dB
413.50 424.00 MHz	<u>-</u>	40	48		dB
443.75 454.00 MHz	<u>-</u>	25	33		dB
454.00 470.00 MHz	<u>-</u>	35	44		dB
470.00 650.00 MHz	<u>-</u>	48	55		dB
650.00 1000.00 MHz	<u>-</u>	40	50	_	dB

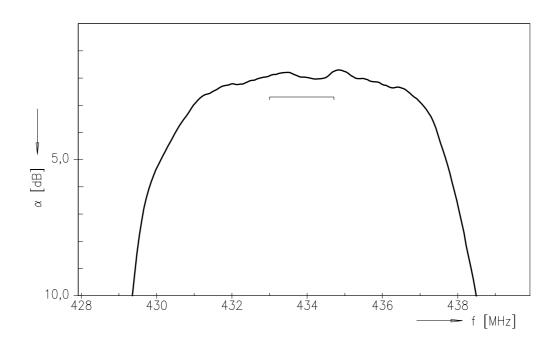
Maximum ratings

Operable temperature range	Т	-45/+120	°C	
Storage temperature range	T_{stg}	-45/+120	°C	
DC voltage	V_{DC}	0	V	
Source power	P_S	10	dBm	source impedance 50 Ω

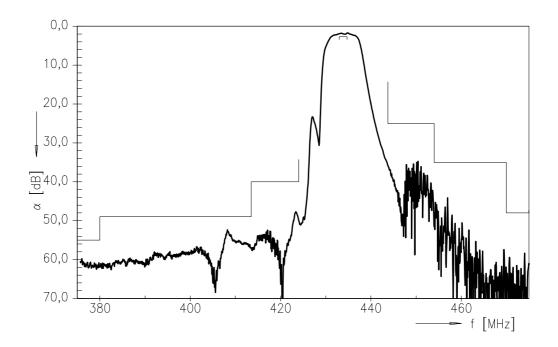


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Transfer function



Transfer function (wideband)





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Data sheet



References

Туре	B3710
Ordering code	B39431B3710U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3710_SB.s2p B3710_WB.s2p
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment."

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

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

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