

# **SAW Components**

SAW filter Short range devices

Series/type: Ordering code: B3710 B39431B3710U410

Date: Version: March 16, 2007 2.0

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SAW Components		B3710
SAW filter		433.92 MHz
Data sheet	<u>smd</u>	

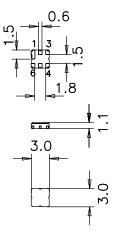
#### Application

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



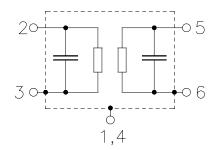
#### Features

- Package size 3.0 x 3.0 x 1.1 mm<sup>3</sup>
- 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)



Please read *cautions and warnings and important notes* at the end of this document.

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SAW Components					B3710
SAW filter				43	3.92 MHz
Data sheet	БМ				
Characteristics					
Temperature range for specification:T= $-40$ °C to $+85$ °CTerminating 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 433.00 434.71 MHz	α <sub>max</sub>	_	2.0	2.7	dB
Amplitude ripple (p-p) 433.00 434.71 MHz	Δα	—	0.5	1.3	dB
Relative attenuation (relative to α <sub>min</sub> ) 0   10.00  380.00 MHz   380.00  413.50 MHz   413.50  424.00 MHz   443.75  454.00 MHz   454.00  470.00 MHz   470.00  650.00 MHz	x <sub>rel</sub>	55 49 40 25 35 48 40	60 53 48 33 44 55 50		dB dB dB dB dB dB dB

## Maximum ratings

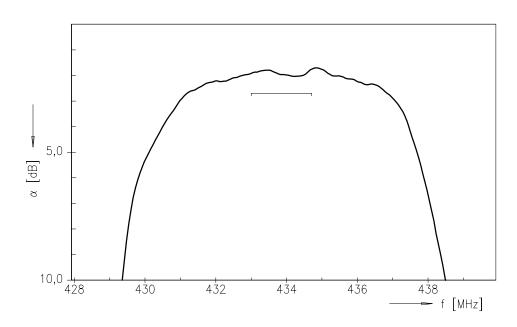
Operable temperature range	Т	-45/+120	°C	
Storage temperature range	T <sub>stg</sub>	-45/+120	°C	
DC voltage	V <sub>DC</sub>	0	V	
Source power	Ps	10	dBm	source impedance 50 $\Omega$

Please read *cautions and warnings and important notes* at the end of this document.

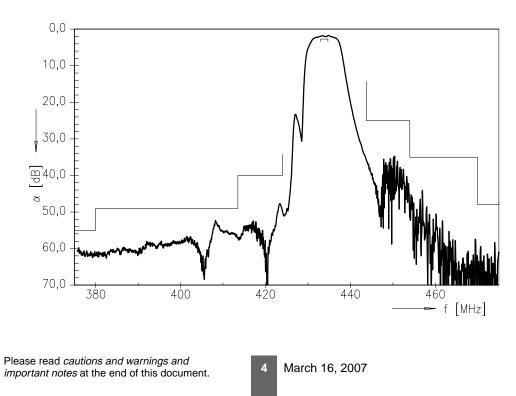
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**Transfer function** 



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 maxi- mum 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 .

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Please read *cautions and warnings and important notes* at the end of this document.

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