

# **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	SMD	

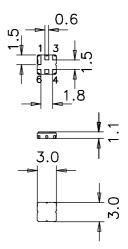
#### Application

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



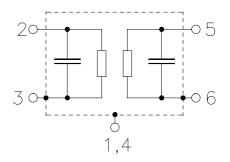
## Features

- 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)



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March 16, 2007

2



SAW Components				B3710	
SAW filter				3.92 MHz	
Data sheet 💳 🖬					
Characteristics					
Temperature range for specification:T= $-40 \degree C$ to $+85 \degree C$ Terminating source impedance: $Z_S = 50\Omega$ Terminating load impedance: $Z_L = 50\Omega$					
	min.	typ. @ 25 °C	max.		
Center frequency f <sub>C</sub>	_	433.92		MHz	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	_	2.0	2.7	dB	
Amplitude ripple (p-p) Δα   433.00  434.71 MHz	_	0.5	1.3	dB	
$\begin{array}{ccccc} \text{Relative attenuation (relative to } \alpha_{min}) & \alpha_{rel} \\ 10.00 & & 380.00 & MHz \\ 380.00 & & 413.50 & MHz \\ 413.50 & & 424.00 & MHz \\ 443.75 & & 454.00 & MHz \\ 454.00 & & 470.00 & MHz \\ 470.00 & & 650.00 & MHz \\ 650.00 & & 1000.00 & MHz \\ \end{array}$	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 $\Omega$

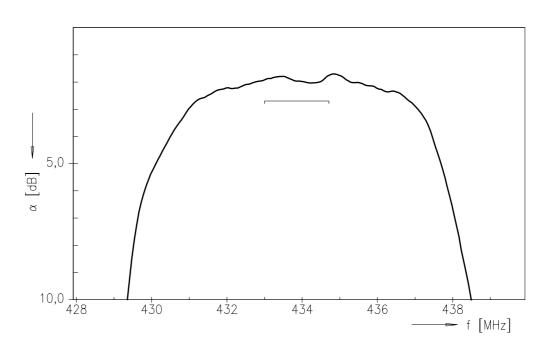
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3 March 16, 2007

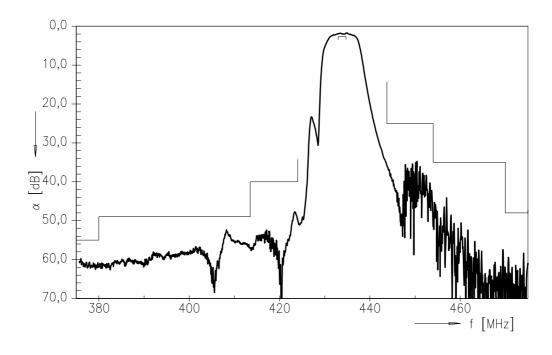




**Transfer function** 



Transfer function (wideband)



4

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March 16, 2007



SAW filter Data sheet

SMD

#### 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."	

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5

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March 16, 2007



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