

SAW Components

SAW filter Short range devices

Series/type: Ordering code: B3714 B39311B3714U410

Date: Version: March 31, 2006 2.0

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SAW Components		B3714
SAW filter		314.35 MHz
Data sheet	SMD	

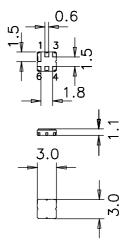
Application

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



Features

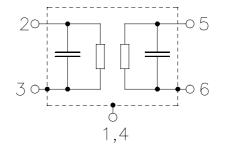
- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Lead free soldering compatible with J STD20C
- Passivation layer Elpas
- AEC-Q200 qualified component family
- Electrostactic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



Pin configuration¹⁾

■ 2	Input
5	Output

■ 1,3,4,6	Ground
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1) The recommended pin configuration usually offers best suppression of electrical crosstalk. The filter characteristics refer to this configuration.

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

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SAW Components				B3714
SAW filter			31	4.35 MHz
Data sheet				
Characteristics				
Operating temperature range: T	= −45 °C to	+85 °C		
	$S_{\rm S} = 50 \Omega$			
Terminating load impedance: Z	$L = 50 \Omega$			
	min.	typ. @ 25 °C	max.	
Center frequency f _C		314.35		MHz
$\begin{array}{llllllllllllllllllllllllllllllllllll$	iax	1.9	2.5	dB
Amplitude ripple 314.05 314.65 MHz	_	0.4	1.2	dB
Relative attenuation (relative to α _{max}) α _{re} 270.00 286.00 MHz 292.65 293.25 MHz 303.35 303.95 MHz 324.75 325.35 MHz 335.45 336.05 MHz 357.50 358.70 MHz	55 53 48 24 36 50	59 58 56 31 44 55	 	dB dB dB dB dB dB

Maximum ratings

Operable temperature range	Т	-45/+85	°C	
Storage temperature range	T _{stg}	-45/+90	°C	
DC voltage	V _{DC}	0	V	
Source power	Ps	10	dBm	source impedance 50 Ω

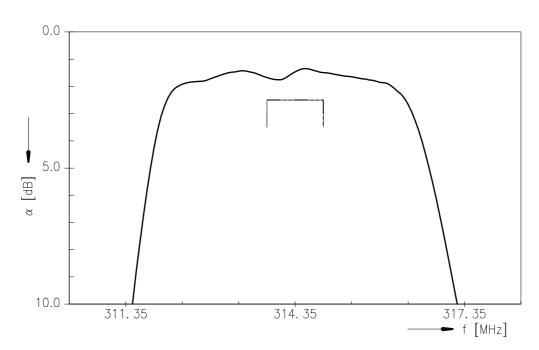
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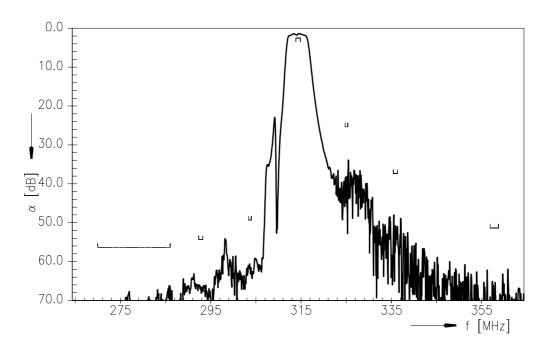




Transfer function



Transfer function (wideband)



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SAW filter Data sheet

SMD

References

Tyme	B3714
Туре	B3714
Ordering code	B39311B3714U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3714_NB.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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