



SAW Components

SAW filter

Short range devices

Series/type:	B3713
Ordering code:	B39311B3713U410
Date:	January 03, 2008
Version:	2.0



SAW Components

B3713

SAW filter

313.85 MHz

Data sheet



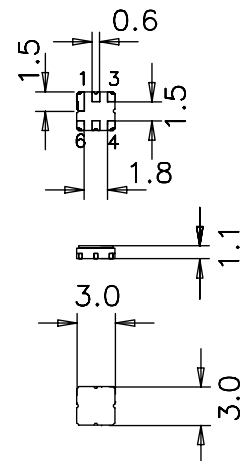
Application

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



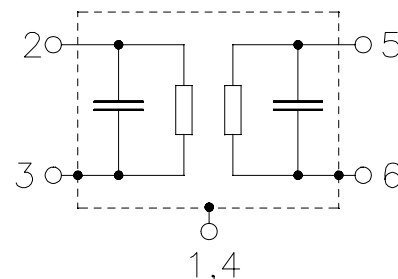
Features

- 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
- **Electrostatic Sensitive Device (ESD)**



Pin configuration¹⁾

- 2 Input
- 5 Output
- 1,3,4,6 Ground



1) The recommended pin configuration usually offers best suppression of electrical crosstalk. The filter characteristics refer to this configuration.



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Characteristics

Temperature range for specification:	T = -40 °C to +85 °C
Terminating source impedance:	Z _S = 50 Ω
Terminating load impedance:	Z _L = 50 Ω

		min.	typ. @ 25 °C	max.	
Center frequency	f _C	—	313.85	—	MHz
Maximum insertion attenuation	α _{max}	—	1.7	2.5	dB
	313.55 ... 314.15 MHz				
Amplitude ripple		—	0.4	1.2	dB
	313.55 ... 314.15 MHz				
Relative attenuation (relative to α_{max})	α _{rel}				
	270.00 ... 286.00 MHz	55	60	—	dB
	291.85 ... 292.75 MHz	53	58	—	dB
	302.85 ... 303.45 MHz	48	53	—	dB
	324.25 ... 324.85 MHz	28	35	—	dB
	334.95 ... 335.85 MHz	50	55	—	dB
	356.35 ... 357.55 MHz	50	55	—	dB

Maximum ratings

Operable temperature range	T	-45/+125	°C	
Storage temperature range	T _{stg}	-45/+125	°C	
DC voltage	V _{DC}	0	V	
Source power	P _S	10	dBm	source impedance 50 Ω



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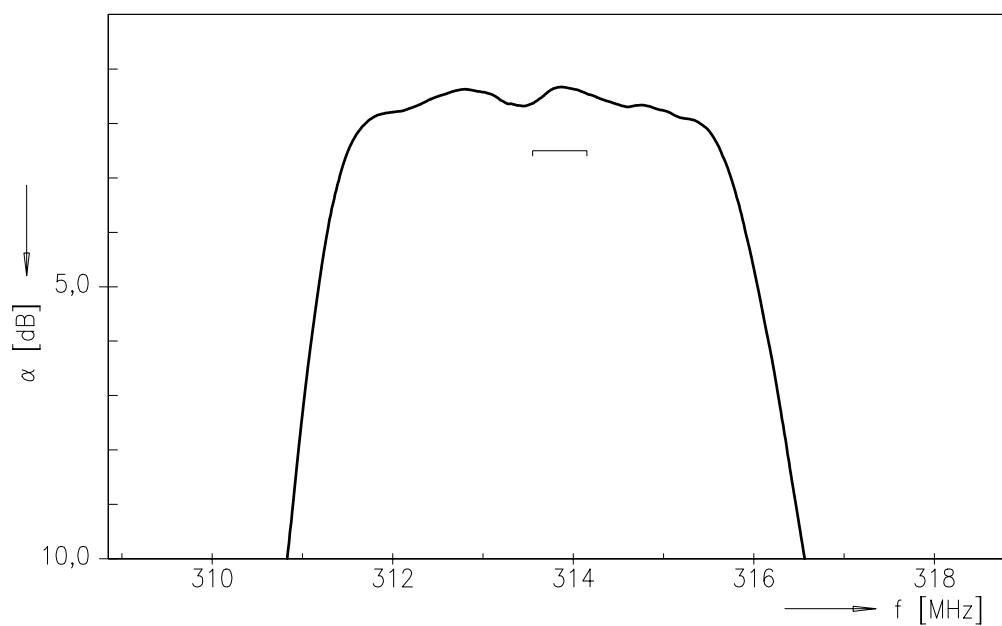
SAW filter

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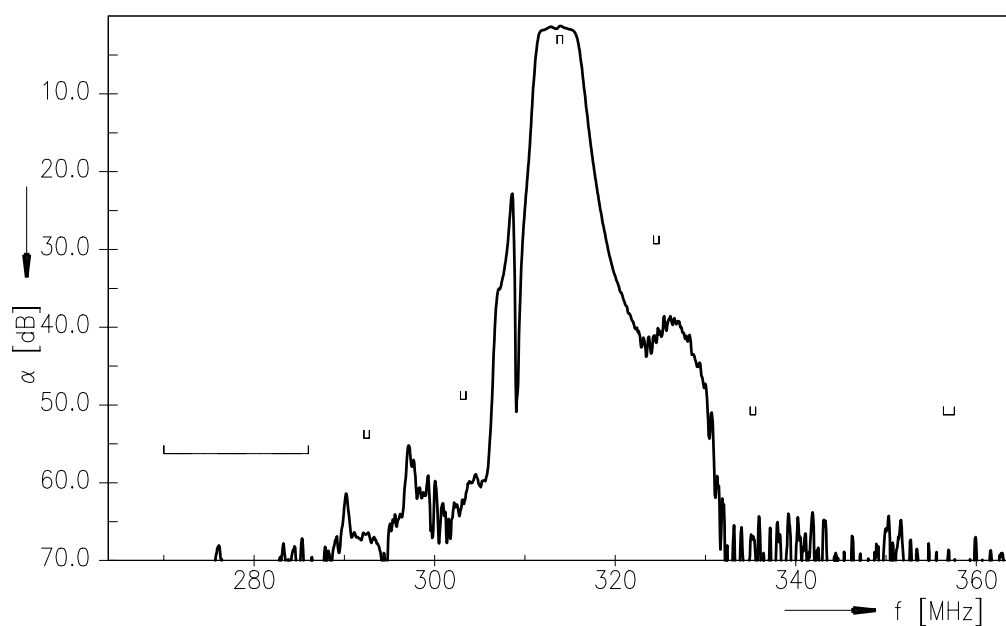
Data sheet



Transfer function



Transfer function (wideband)





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Data sheet	SMD

References

Type	B3713
Ordering code	B39311B3713U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3713_NB.s2p B3713_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.

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