



SAW Components

SAW RF filter

Short range device

Series/type:	B3718
Ordering code:	B39921B3718U410
Date:	January 14, 2009
Version:	2.2

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Data sheet



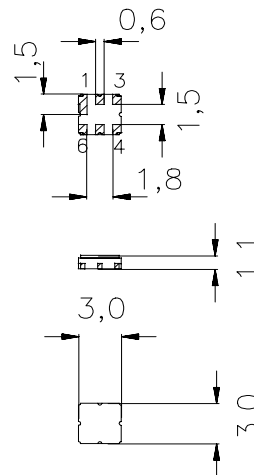
Application

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



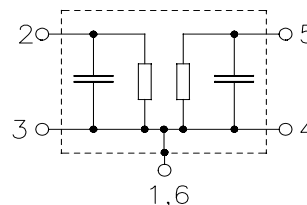
Features

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



Pin configuration

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



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



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SAW RF filter

916.00 MHz

Data sheet



Characteristics

Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	916.00	—	MHz
Maximum insertion attenuation	α_{\max}	—	2.4	3.0	dB
914.25 ... 917.75 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	0.5	1.2	dB
914.25 ... 917.75 MHz					
Attenuation	α				dB
10.00 ... 897.00 MHz		36	40	—	
897.00 ... 903.00 MHz		24	27	—	
930.00 ... 937.00 MHz		27	34	—	
937.00 ... 1200.00 MHz		42	46	—	

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SAW RF filter

916.00 MHz

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Characteristics

Temperature range for specification: $T = -40\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	916.00	—	MHz
Maximum insertion attenuation	α_{\max}	—	2.4	3.4	dB
914.25 ... 917.75 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	0.5	1.6	dB
914.25 ... 917.75 MHz					
Attenuation	α				dB
10.00 ... 897.00 MHz		36	40	—	
897.00 ... 903.00 MHz		24	27	—	
930.00 ... 937.00 MHz		26	34	—	
937.00 ... 1200.00 MHz		42	46	—	

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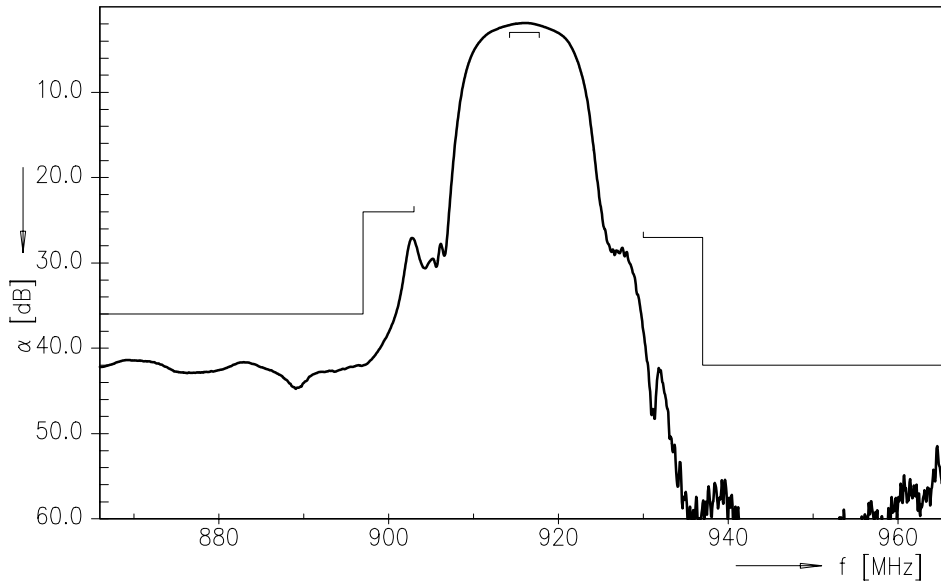
Maximum ratings

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	13	dBm	source impedance 50 Ω
Source power 914.25 MHz to 917.75 MHz	P _S	16	dBm	duty cycle 1:10, -40 °C to +85 °C
Source power 914.25 MHz to 917.75 MHz	P _S	20	dBm	duty cycle 1:100, -40 °C to +85 °C

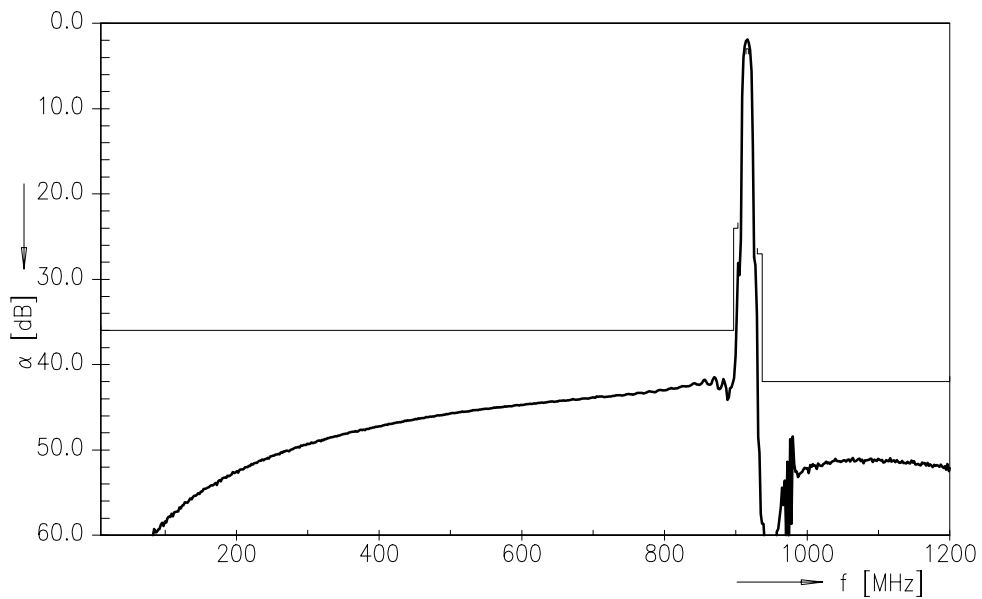
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Transfer function



Transfer function (wideband)



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SAW RF filter **916.00 MHz**

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References

Type	B3718
Ordering code	B39921B3718U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3718_NB.s2p B3718_WB.s2p See file header for port/pin assignment table.
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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Please read *cautions and warnings and important notes* at the end of this document.

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