



SAW Components

SAW RF filter

Short range devices

Series/type:	B3726
Ordering code:	B39921-B3726-U410
Date:	June 23, 2009
Version:	2.0



SAW Components

B3726

SAW RF filter

915.00 MHz

Data sheet



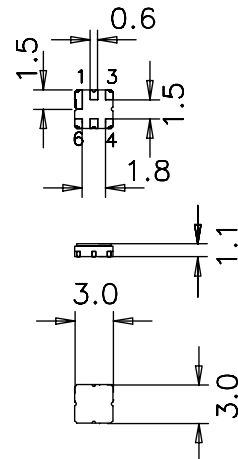
Application

- Low-loss RF filter for ISM band
- Low amplitude ripple
- Usable passband 10 MHz



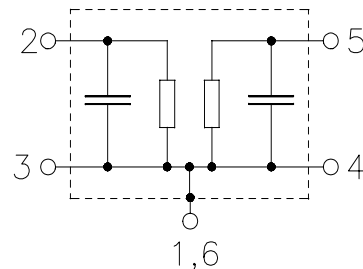
Features

- 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 Case ground





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Characteristics

Temperature range for specification: $T = -30\text{ °C to }+85\text{ °C}$
Terminating source impedance: $Z_S = 50\ \Omega$
Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	915.00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	2.6	3.5	dB
910.00 ... 920.00 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	0.8	1.7	dB
910.00 ... 920.00 MHz					
VSWR					
Input	910.00 ... 920.00 MHz		1.4	1.9	
Output	910.00 ... 920.00 MHz		1.4	1.9	
Attenuation	α				
10.00 ... 873.00 MHz		42	47	—	dB
873.00 ... 894.00 MHz		37	44	—	dB
934.00 ... 937.00 MHz		34	56	—	dB
937.00 ... 1000.00 MHz		50	56	—	dB
1000.00 ... 1500.00 MHz		47	50	—	dB
1500.00 ... 2600.00 MHz		32	35	—	dB

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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}	6	V	
Source power	P _S	10	dBm	source impedance 50 Ω



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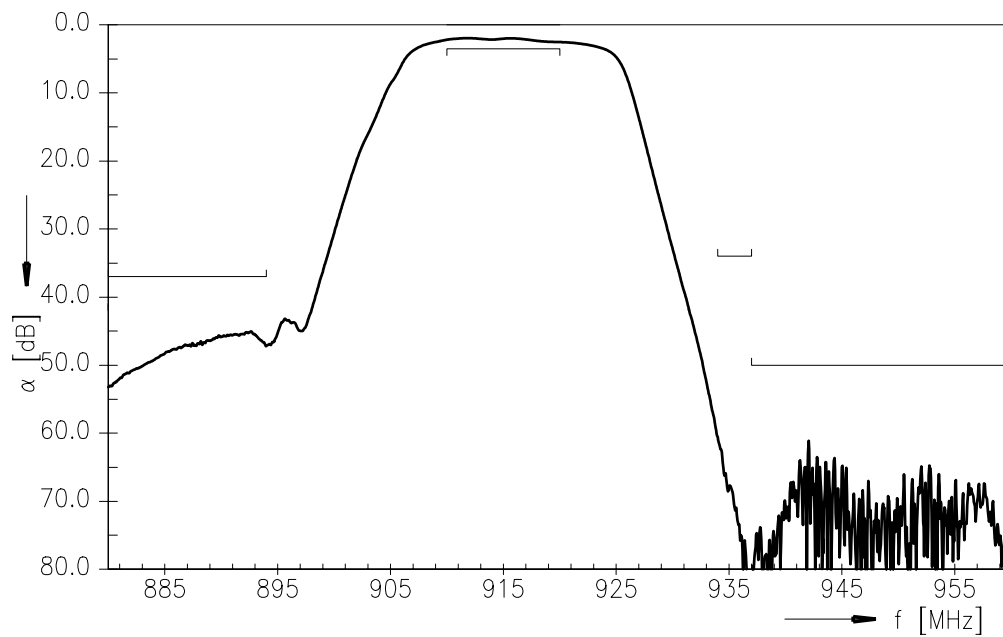
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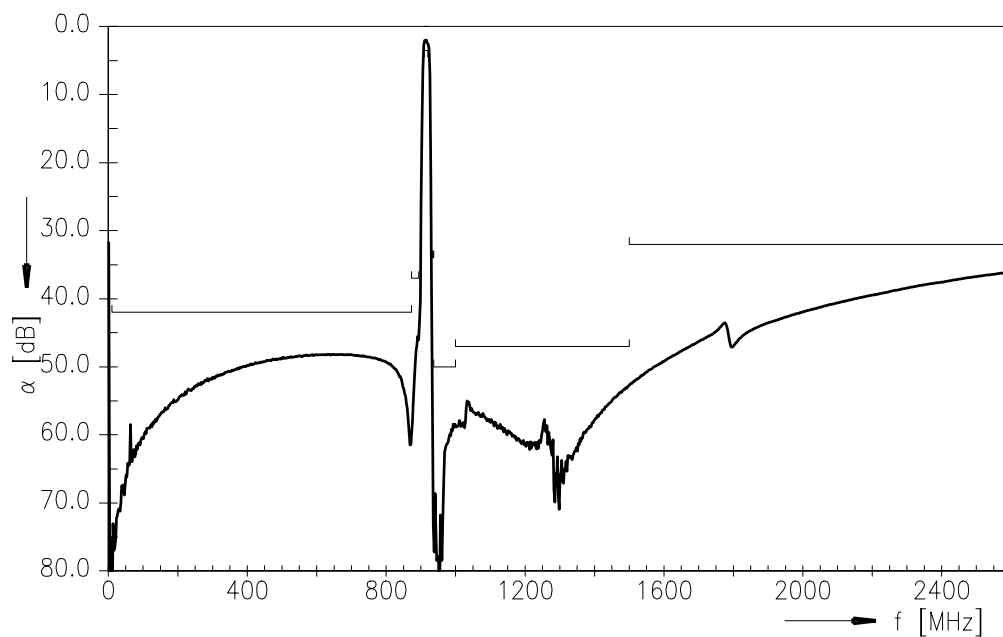
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Transfer function



Transfer function (wideband)



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

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Data sheet

**References**

Type	B3726
Ordering code	B39921-B3726-U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3726_NB.s2p B3726_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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Surface Acoustic Wave Components Division

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



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