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## SAW Components

SAW filter

RF Base Station

**Series/type:** B5118

**Ordering code:** B39801B5118U410

**Date:** January 12, 2010

**Version:** 2.0

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**SAW Components**

**B5118**

**SAW filter**

**796.50 MHz**

Datasheet



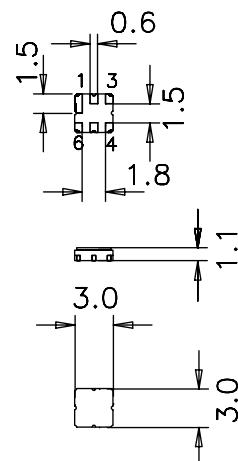
**Application**

- RF filter for Base station
- Unbalanced to Unbalanced operation
- Low amplitude ripple
- Usable passband 17 MHz



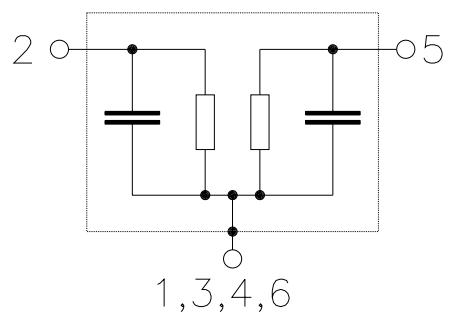
**Features**

- 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
- Electrostatic Sensitive Device (ESD)



**Pin configuration**

- 2 Input
- 5 Output
- 1,3,4,6 Case grounded





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**Characteristics**

Temperature range for specification:  $T = -25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

Terminating source impedance:  $Z_S = 50 \Omega$

Terminating load impedance:  $Z_L = 50 \Omega$

			min.	typ. @ 25 °C	max.	
<b>Center frequency</b>		$f_C$	—	796.5	—	MHz
<b>Maximum insertion attenuation</b>		$\alpha_{\max}$	—	1.8	2.5	dB
	788.0 ... 805.0	MHz				
<b>Amplitude ripple (p-p)</b>		$\Delta\alpha$	—	0.5	1.2	dB
	788.0 ... 805.0	MHz				
<b>Return loss</b>			10.0	16.0	—	dB
	788.0 ... 805.0	MHz				
<b>Attenuation</b>		$\alpha$	40	48	—	dB
	746.0 ... 757.0	MHz	10	32	—	dB
	758.0 ... 775.0	MHz	40	52	—	dB
	851.0 ... 894.0	MHz				



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#### Maximum ratings

Operable temperature range	T	–40/+85	°C	
Storage temperature range	T <sub>stg</sub>	–40/+85	°C	
DC voltage	V <sub>DC</sub>	5	V	
ESD voltage	V <sub>ESD</sub>	100 <sup>1)</sup>	V	machine model, 1 pulse
Input power at 788.0 ... 805.0	P <sub>IN</sub>	15	dBm	CW

<sup>1)</sup> acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.



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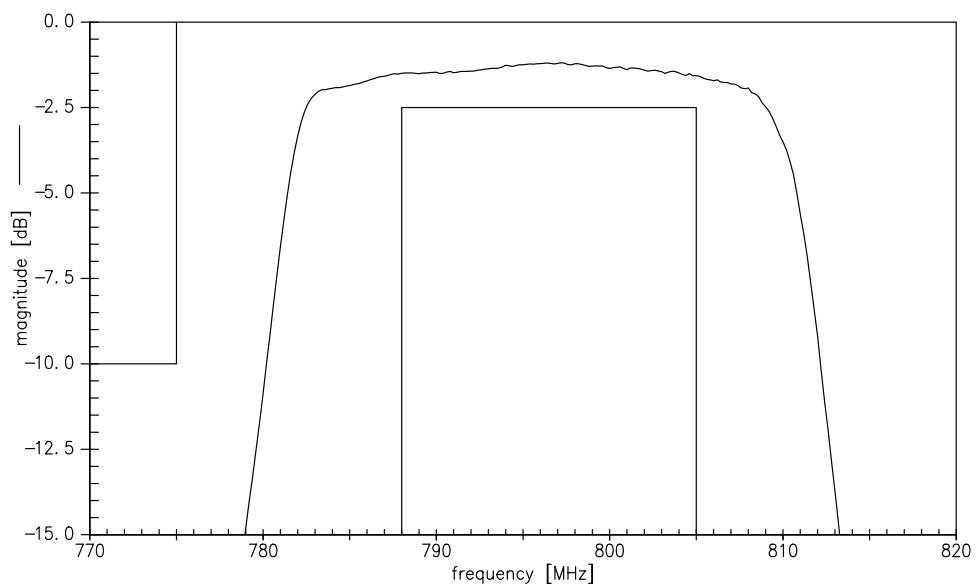
SAW filter

796.50 MHz

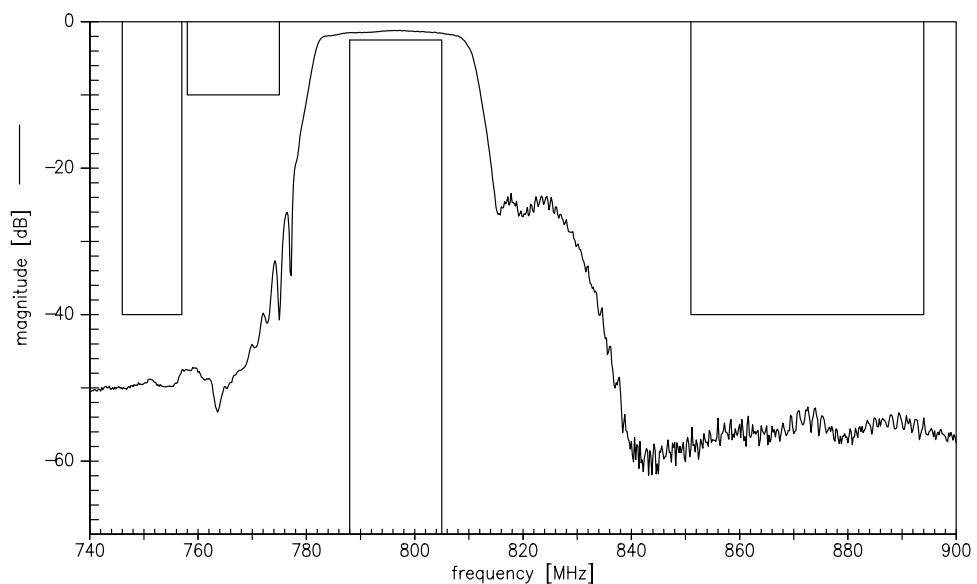
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Transfer function



Transfer function (wideband)





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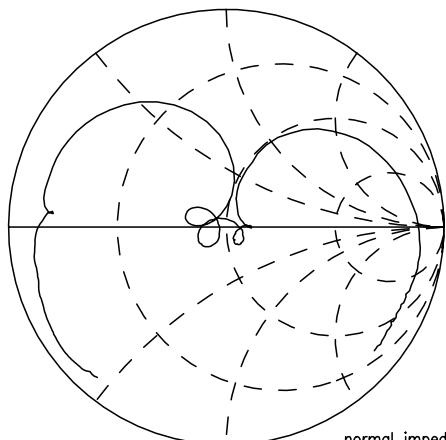
**796.50 MHz**

Datasheet

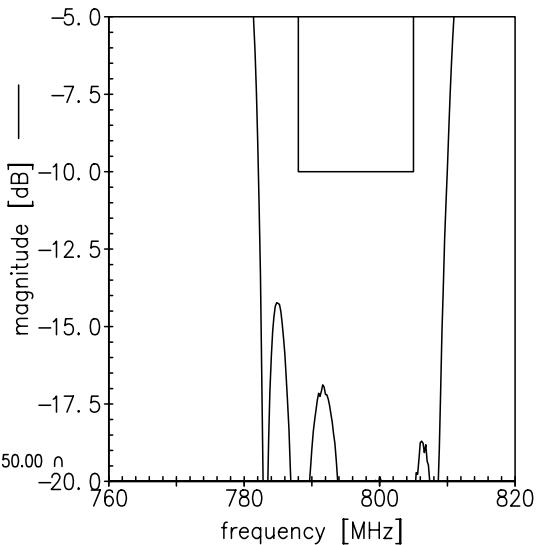


Smith charts

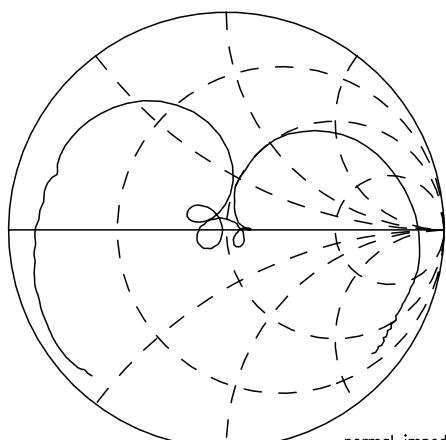
**S<sub>11</sub> function**



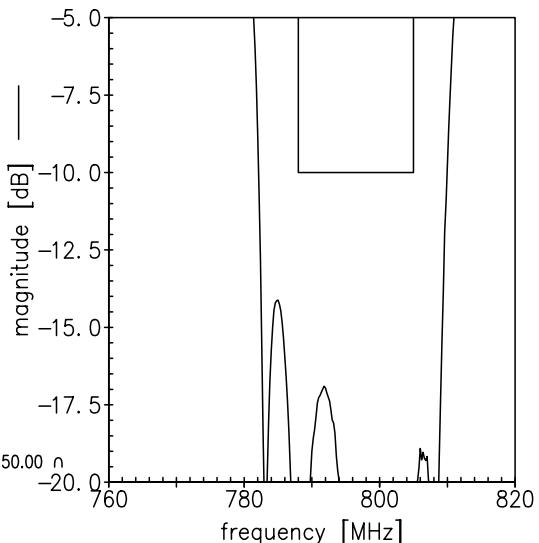
normal impedance: 50.00  $\Omega$



**S<sub>22</sub> function**



normal impedance: 50.00  $\Omega$





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## References

Type	B5118
Ordering code	B39801B5118U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B5118_NB.s2p B5118_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."

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