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## SAW Components

### SAW RF filter

Basestation

**Series/type:**

**B5117**

**Ordering code:**

**B39771B5117U410**

**Date:**

June 23, 2009

**Version:**

2.0

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## SAW Components

B5117

### SAW RF filter

766.5 MHz

Data Sheet



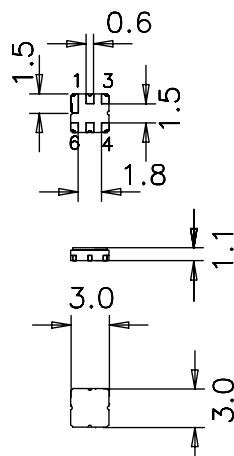
#### Application

- Low-loss RF filter for Basestation
- Usable band width 17 MHz



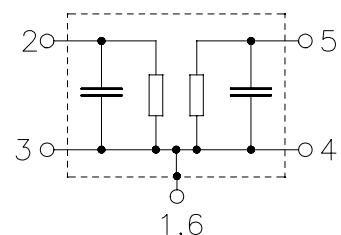
#### Features

- Package size 3.0 x3.0 x 1.10 mm<sup>3</sup>
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Ceramic package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**
- Filter surface passivated



#### Pin configuration

- 2 Input
- 5 Output
- 1, 3, 4, 6 To be grounded



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



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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:  $Z_L = 50 \Omega$

		<b>min.</b>	<b>typ. @ 25 °C</b>	<b>max.</b>	
<b>Nominal frequency</b>	$f_N$	—	766.5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$ $f_N \pm 8.5 \text{ MHz}$	—	2.0	3.0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$ $f_N \pm 8.5 \text{ MHz}$	—	0.75	1.5	dB
<b>Return loss (input / output)</b>	$f_N \pm 8.5 \text{ MHz}$	9	11	—	
<b>Absolute attenuation</b>	$\alpha$ 788.0 ... 805.0 MHz 806.0 ... 849.0 MHz	10 20	18 35	— —	dB dB
Temperature coefficient of frequency	$TC_f$	—	-36	—	ppm/K

**Maximum ratings**

Operable temperature range	$T$	-40/+85	°C	
Storage temperature range	$T_{\text{stg}}$	-40/+85	°C	
DC voltage	$V_{\text{DC}}$	0	V	
ESD voltage	$V_{\text{ESD}}$	50 <sup>1)</sup>	V	machine model, 1 pulse
Input power	$P_{\text{IN}}$	10	dBm	

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



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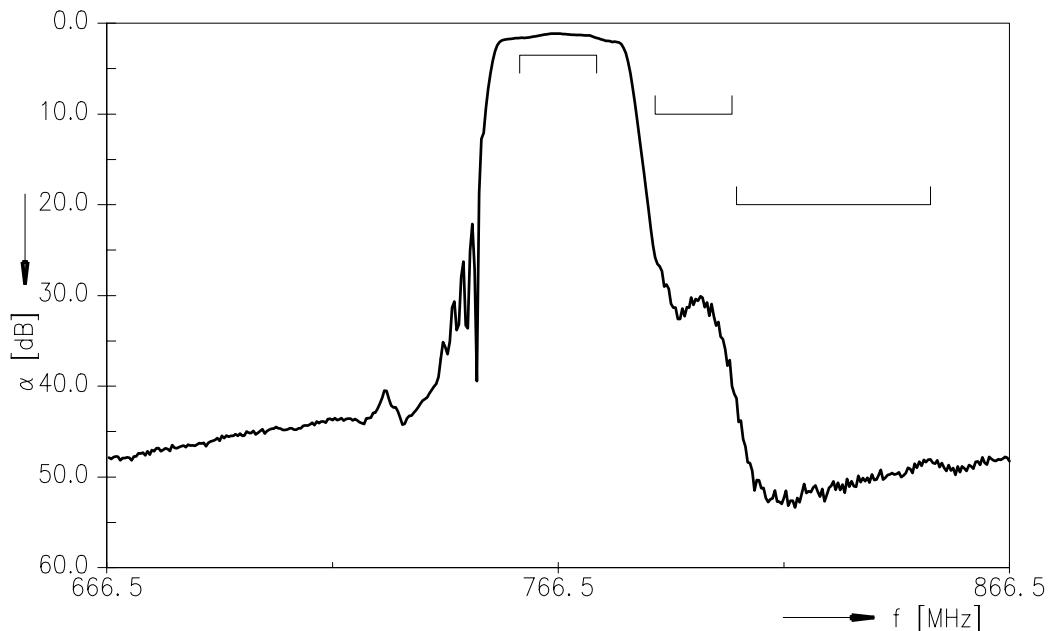
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Transfer function





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## References

Type	B5117
Ordering code	B39771B5117U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	LI50A_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 maximum concentration values for certain hazardous substances in electrical and electronic equipment."

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Surface Acoustic Wave Components Division

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