

SAW Components

SAW RF filter

Basestation

Series/type: B5117

Ordering code: B39771B5117U410

Date: June 23, 2009

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SAW Components B5117

SAW RF filter 766.5 MHz

Data Sheet



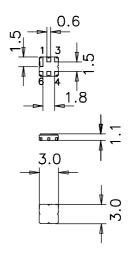
Application

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



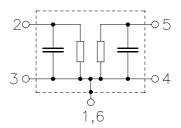
Features

- Package size 3.0 x3.0 x 1.10 mm³
- 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





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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.	
Nominal frequency	f _N	_	766.5	_	MHz
Maximum insertion attenuation $f_N \pm 8.5$	α_{max} MHz	ах —	2.0	3.0	dB
Amplitude ripple (p-p) $f_N \pm 8.5$	$\begin{array}{c} \Delta\alpha\\ \text{MHz} \end{array}$	_	0.75	1.5	dB
Return loss (input / output) $f_N \pm 8.5 \; \text{MHz}$		9	11	_	
Absolute attenuation 788.0 805.0 806.0 849.0		10 20	18 35	 - -	dB dB
Temperature coefficient of freque	ncy TC	f —	-36	_	ppm/k

Maximum ratings

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

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



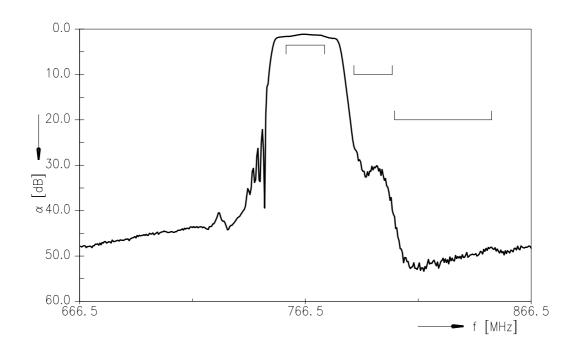
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Data Sheet

Transfer function





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References

Туре	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."

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

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For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.



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