SAW Components

SAW RF filter

Basestation

Series/type:	**B5117**
Ordering code:	**B39771B5117U410**
Date:	June 23, 2009
Version:	2.0

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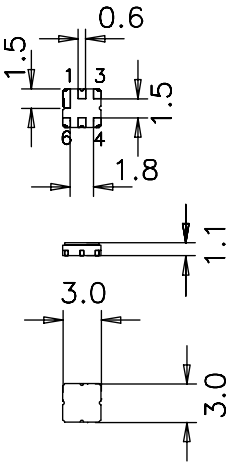
Application

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



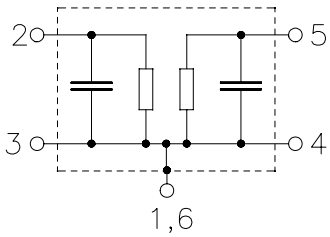
Features

- Package size 3.0 x3.0 x 1.10 mm^3
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Ceramic package for **S**urface **M**ount **T**echnology (**SMT**)
- Ni, gold-plated terminals
- **E**lectrostatic **S**ensitive **D**evice (**ESD**)
- Filter surface passivated



Pin configuration

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



Data Sheet SMD

Characteristics

Temperature range for specification: T = –25 ˚C to +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

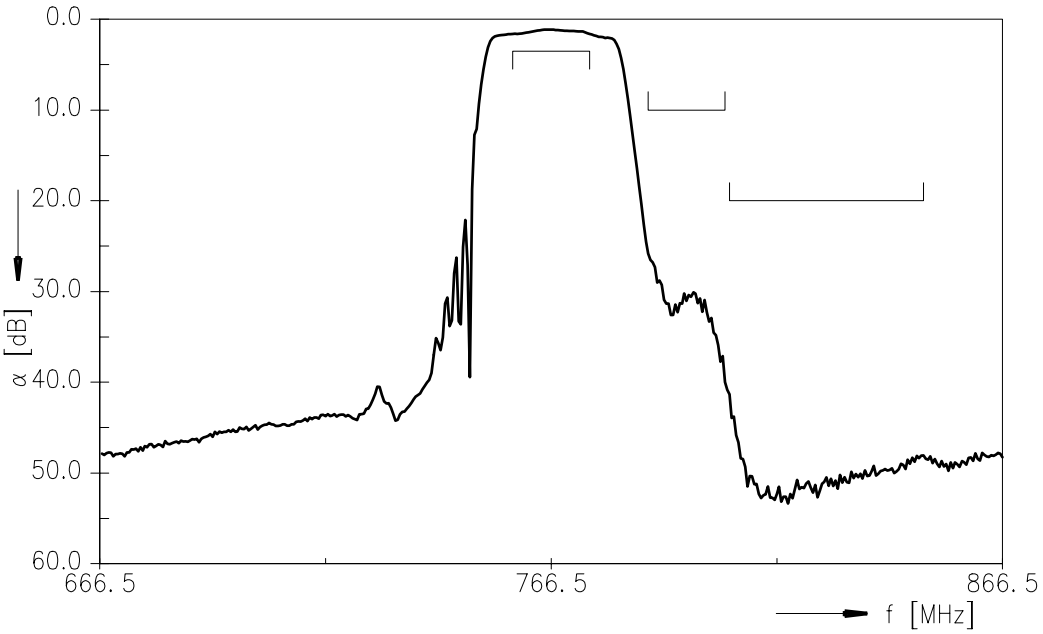
		min.	typ. @ 25 ˚C	max.	
Nominal frequency	f_N	—	766.5	—	MHz
Maximum insertion attenuation	α_{max}				
$f_N \pm 8.5$ MHz		—	2.0	3.0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
$f_N \pm 8.5$ MHz		—	0.75	1.5	dB
Return loss (input / output)					
$f_N \pm 8.5$ MHz		9	11	—	
Absolute attenuation	α				
788.0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

Transfer function



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."

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

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