

SAW Components

SAW filter WCDMA Band I

Series/type: Ordering code: B5127 B39192B5127U410

Date: Version: July 30, 2009 2.0

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SAW Components		B5127
SAW filter		1950.0 MHz
Data sheet	SMD	

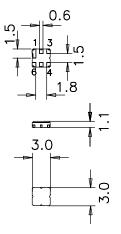
Application

- Low-loss base-station RF filter
- Low amplitude ripple
- No matching required for operation at 50Ω
- Usable passband 20 MHz



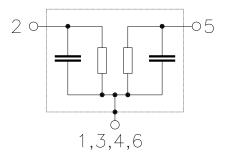
Features

- 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
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 2 Input unbalanced
- 5 Output unbalanced
- 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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SAW Components						B512
SAW filter						1950.0 MH
Data sheet		=M				
Characteristics						
Temperature range for spe Terminating source imped Terminating load impedan	ance:	T = Z _S = Z _L =	= 50Ω	to +85 °C	;	
			min.	typ. @ 25 °C	max.	
Center frequency		f _C	—	1950.0	—	MHz
Maximum insertion atter	nuation f _C ± 10.0 MH	α _{max} z	_	2.5	3.0	dB
Amplitude ripple (p-p)	f _C ± 10.0 MH	Δα z	_	0.5	1.0	dB
Input VSWR	f _C ± 10.0 MH	z	_	1.7:1	2.0:1	
Output VSWR	$f_{C} \pm 10.0$ MH	z	_	1.6:1	2.0:1	
Group Delay Ripple (p-p) ƒ ± 10.0 MH	Δτ z	_	5	15	ns
Attenuation 800.0 1160.0	960.0 MH 1220.0 MH		37.0 43.0	47.0 55.0	_	dB dB
1540.0	1600.0 MH 1790.0 MH	z	43.0 36.0 30.0	44.0 39.0		dB dB
	1884.5 MH 1900.0 MH 1919.6 MH	z	30.0 30.0 6.5	33.0 40.0 9.5		dB dB dB
2110.0	2170.0 MH		32.0	38.0	_	dB

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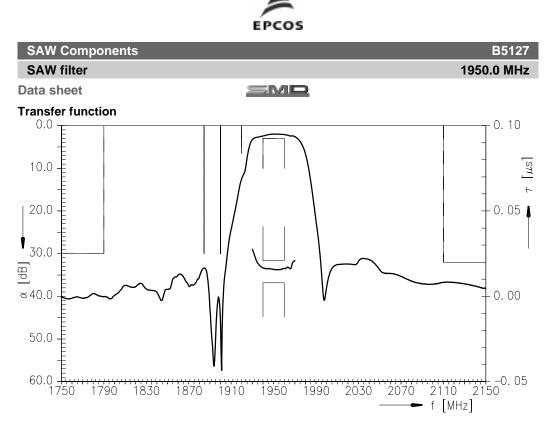
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Maximum ratings

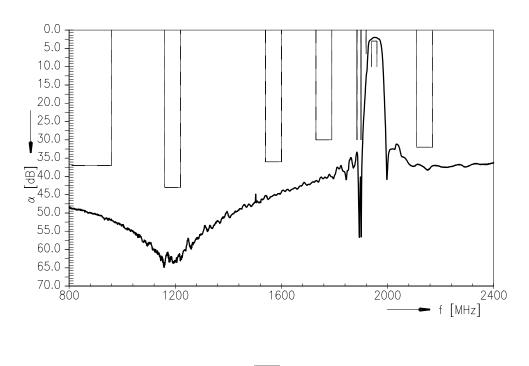
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	0	V	
ESD voltage	V_{ESD}	50 ¹⁾	V	machine model, 1 pulse
Input power				
1940 1960 MHz	P _{IN}	0	dBm	CW

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

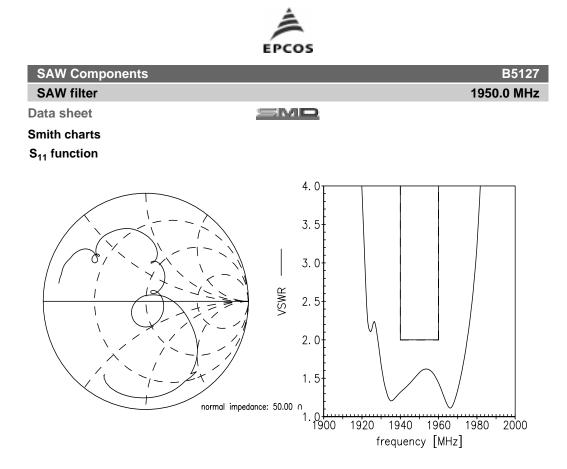
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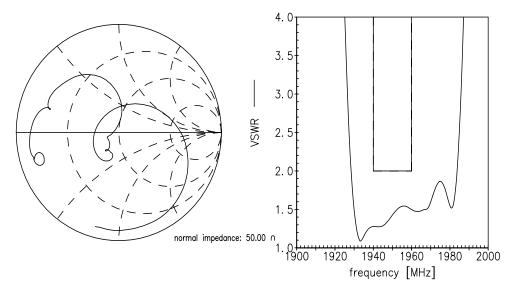




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References

Туре	B5127
Ordering code	B39192B5127U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B5127_NB.s2p B5127_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 maxi- mum 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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