

SAW Components

SAW filter

GSM RF Filter

Series/type: B4125

Ordering code: B39881B4125U410

Date: June 26, 2012

Version: 2.1

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SAW Components B4125

SAW filter 881.5 MHz

Data sheet



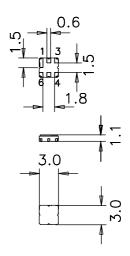
Application

- Low-loss RF filter for AMPS mobile telephone system, receive path
- Low amplitude ripple
- Usable passband of 25 MHz



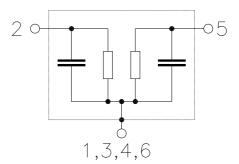
Features

- 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)
- Moisture Sensitive Level 1
- Filter surface passivated



Pin configuration

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





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Data sheet = MD

Characteristics

Temperature range for specification: $T = -40 \,^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

				min.	typ. @ 25 °C	max.	
Centre frequer	псу		f _C	_	881.5	_	MHz
Maximum inse	rtion attenuation		α_{max}				
	869.0 894.0) MHz		_	2.6	3.0	dB
Amplitude ripple (p-p)		$\Delta \alpha$					
	869.0 894.0) MHz		_	1.1	1.5	dB
VSWR							
Input	869.0 894.	0 MHz			1.4	1.6	
Output	869.0 894.	0 MHz		_	1.4	1.6	
Attenuation			α				
	0.0 824.	0 MHz		35.0	50.0	_	dB
	824.0 849.	0 MHz		35.0	45.0	_	dB
	970.0 997.	0 MHz		35.0	60.0		dB
	997.0 1150.	0 MHz		40.0	60.0		dB
	1150.0 1500.	0 MHz		30.0	50.0		dB
	1500.0 2000.	0 MHz		25.0	38.0		dB
	2000.0 6000.	0 MHz		20.0	25.0	_	dB



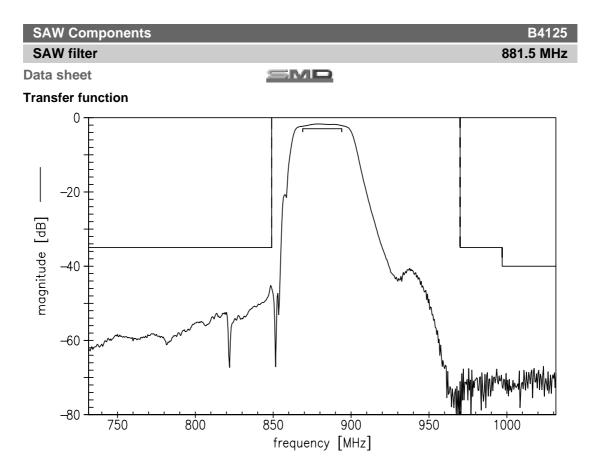
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Maximum ratings

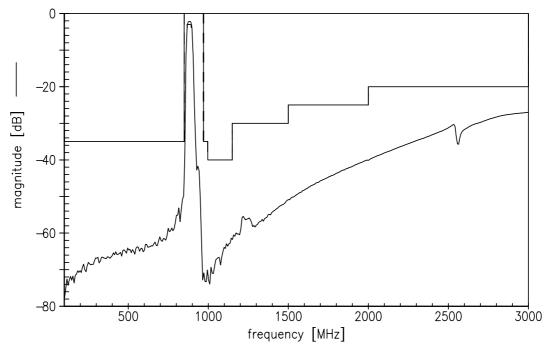
Operable temperature range T	-40/+85	°C	
Storage temperature range T _{stg}	-40/+85	°C	
DC voltage V _{DC}	3	V	
ESD voltage V _{ESD}	50 ¹⁾	V	machine model, 1 pulse
Input power			
869.0 894.0 MHz P _{IN}	13	dBm	Continuous Wave, 100000hrs, 85°C

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





Transfer function (wideband)



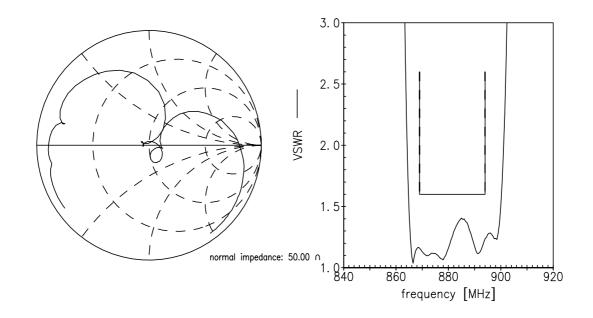


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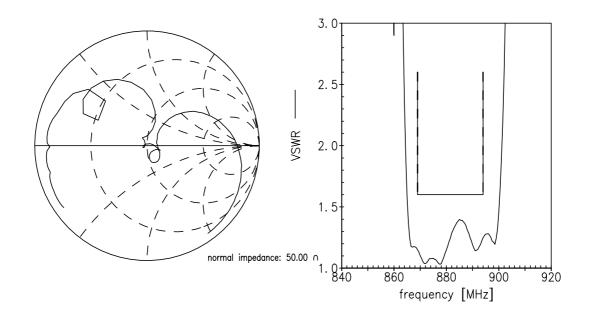
Data sheet

Smith charts

S₁₁ function



S₂₂ function





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SAW filter		881.5 MHz
Data sheet	SMD	

References

Туре	B4125
Ordering code	B39881B4125U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B4125_NB.s2p, B4125_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."
Matching coils	See Inductor pdf-catalog http://www.tdk.co.jp/tefe02/coil.htm#aname1 and Data Library for circuit simulation http://www.tdk.co.jp/etvcl/index.htm for a large variety of matching coils.

For further information please contact your local EPCOS sales office or visit our webpage at $\underline{www.epcos.com}$.

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: http://oceanchips.ru/

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А