

SAW Components

SAW filter GSM 850 TX

Series/type: B4122

Ordering code: B39841B4122U410

Date: April 14, 2010

Version: 2.0

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SAW Components

B4122

SAW filter 836.5 MHz

Data sheet

\equiv M \square

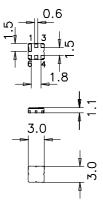
Application

- Low-loss RF filter for AMPS mobile telephone system,transmit path
- Low amplitude ripple
- No matching required for operation at 50Ω
 Usable passband 25 MHz



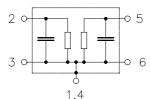
Features

- 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)



Pin configuration

- 2 Input
- 3 Ground
- **5** Output
- **6** Ground
- Case ground **1**,4





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 \equiv MD Data sheet

Characteristics

 $T = -30 \text{ to } +85^{\circ}\text{C}$ Temperature range for specification:

Terminating source impedance: Terminating load impedance: $Z_{\rm S} = 50 \ \Omega$ $Z_{\rm L} = 50 \ \Omega$

				min.	typ. @ 25 °C	max.	
Center frequency			f _C		836.5		MHz
Maximum insertion attenuation		α_{max}					
824,0	849,0	MHz		_	2,6	3,0	dB
Amplitude ripple (p-p)			Δα				
824,0	849,0	MHz		_	1,1	1,5	dB
VSWR							
824,0	849,0	MHz		_	1,92	2,0	dB
Attenuation			α_{abs}				
0,0	800,0	MHz		30,0	50,0	_	dB
800,0	894,0	MHz		32,0	34,0	_	dB
894,0	920,0	MHz		34,0	40,0	_	dB
920,0	1210,0	MHz		40,0	55,0	_	dB
1210,0	1500,0	MHz		30,0	50,0	_	dB
1500,0	2000,0	MHz		25,0	50,0	_	dB
2000,0	2600,0	MHz		20,0	32,0	—	dB
2600,0	3000,0	MHz		15,0	28,0	_	dB



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SAW filter		836.5 MHz
Data sheet	=MD	

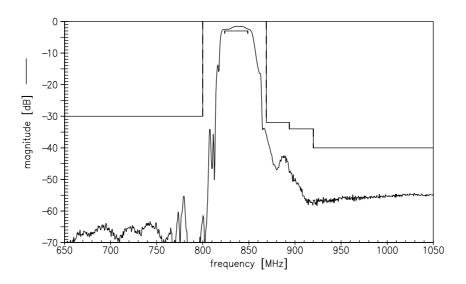
Maximum ratings

Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T_{stq}	-40/+85	°C	
DC voltage	V_{DC}	3	V	
Source power	Ps	8	dBm	source impedance 50 Ω

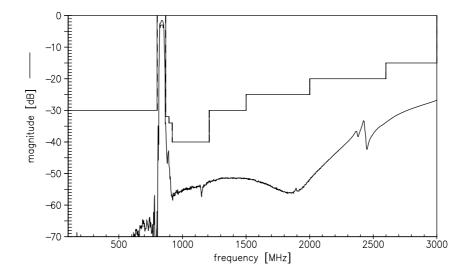


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SAW filter		836.5 MHz
Data sheet	=MD	

Transfer function



Transfer function (wideband)



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



SAW Components

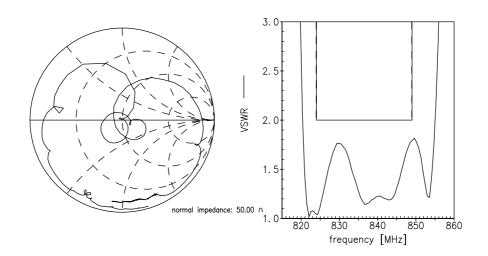
SAW filter

B4122

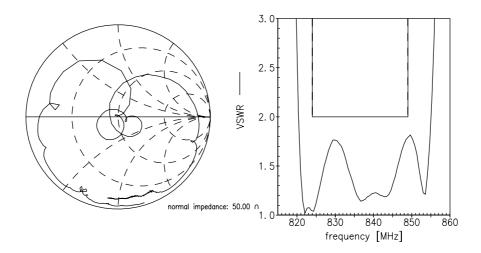
836.5 MHz

Data sheet

Reflection function



Reflection function (wideband)





SAW Components	B4122
SAW filter	836.5 MHz
Data sheet	

References

Туре	B4122
Ordering code	B39841B4122U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8088-Z000
Date codes	L_1126
S-parameters	B4122_NB.s2p B4122_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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