

SAW Components

SAW filter

Series/type: Ordering code: B5132 B39271B5132U310

Date: Version: March 29, 2010 2.0

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SAW Components		B5132
SAW filter		267.50 MHz
Data sheet	<u>smd</u>	

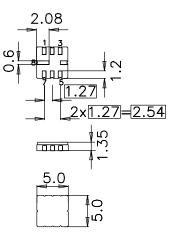
Application

- RF filter for 2-way-radio (TETRA)
- Usable passband of 15MHz
- Unbalanced to Unbalanced operation
- Low amplitude ripple
- No matching required for operation at 50 Ω



Features

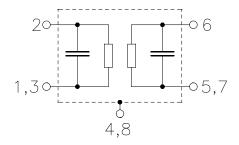
- Package size 5.0 x 5.0 x 1.35 mm³
- Package code QCC8C
- RoHS compatible
- Approximate weight 0.10 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

2	Input

- 6 Output
- 1,3,5,7 To be grounded
- 4,8 Case ground



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Characteristics						
Temperature range for specification Terminating source impedance: Terminating load impedance:	:	T = Z _S = Z _L =	50 Ω	to +70 °C	;	
			min.	typ. @ 25 °C	max.	
Center frequency		f _C	—	267.5	—	MHz
Maximum insertion attenuation 260.0 275.0	MHz	α_{max}	_	2.2	3.5	dB
Amplitude ripple (p-p)		Δα				
260.0 275.0	MHz			1.1	2.3	dB
VSWR 260.0 275.0	MHz				4.0	
260.0 275.0	IVITZ			1.4	1.9	
Attenuation		α				
10.0 226.0	MHz		28	52	_	dB
226.0 250.0	MHz		11	14	—	dB
290.0 320.0			14	24	—	dB
	MHz		20	39	—	dB
320.0 340.0 340.0 1100.0	MHz		28	35		dB

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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}	5	V	
ESD voltage	V_{ESD}	100 ¹⁾	V	machine model, 1 pulse
Input power at				
260.0 275.0	P _{IN}	10	dBm	CW

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

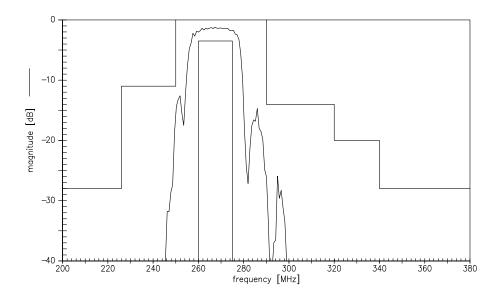
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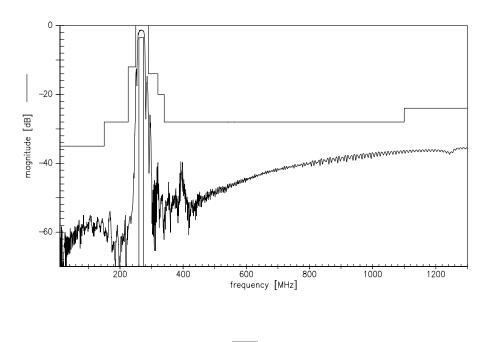
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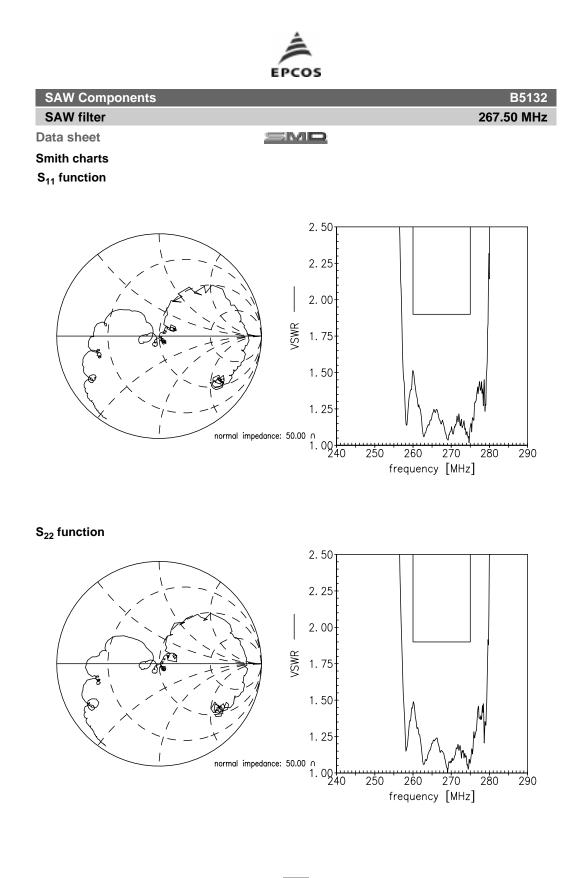
Transfer function



Transfer function (wideband)



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References

Туре	B5132
Ordering code	B39271B5132U310
Marking and package	C61157-A7-A56
Packaging	F61074-V8169-Z000
Date codes	L_1126
S-parameters	B5132_NB.s2p B5132_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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