

SAW Components

SAW Rx filter Satellite Communications

Series/type: Ordering code: B5072 B39202B5072U410

Date: Version: August 28, 2008 2.1

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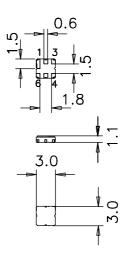
SAW ComponentsB5072SAW Rx filter2010.00 MHzData sheetImage: Component State S

- Low-loss RF filter for base station
- Satellite Communication systems, receive path (Rx)
- Unbalanced to unbalanced operation
- No external matching required
- Low amplitude ripple
- Usable passband 20 MHz



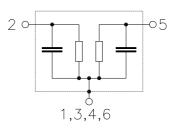
Features

- 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
- 5 Output
- 1,3,4,6 Case grounded



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

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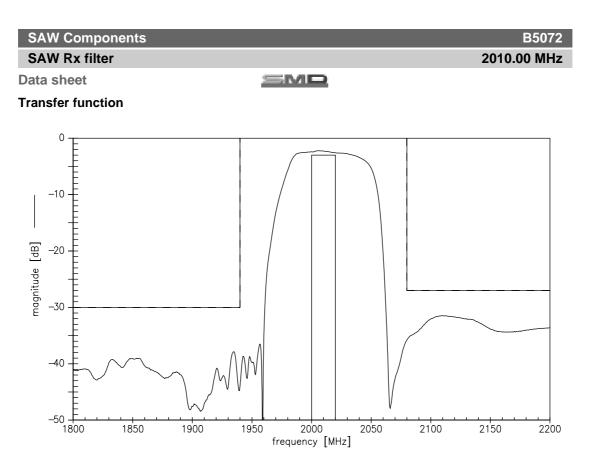
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SAW Components SAW Rx filter	-	-	-	-	B5072 2010.00 MHz			
Data sheet	SM							
Characteristics								
Temperature range for specification:T= -10 °C to $+85$ °CTerminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$								
		min.	typ. @ 25 °C	max.				
Center frequency	f _C	—	2010.00	_	MHz			
Maximum insertion attenuation 2000.0 2020.0 MHz	α _{max}	_	2.6	3.0	dB			
Amplitude ripple (p-p) 2000.0 2020.0 MHz Return Loss	Δα	_	0.5	1.0	dB			
2000.0 2020.0 MHz	2	10.0	13.3	—	dB			
Attenuation	α							
50.0 1500.0 MHz 1500.0 1940.0 MHz 2080.0 3000.0 MHz	<u> </u>	20 30 27	43 37 29		dB dB dB			
3000.0 5000.0 MHz 5000.0 6000.0 MHz	-	18 10	21 12		dB dB			

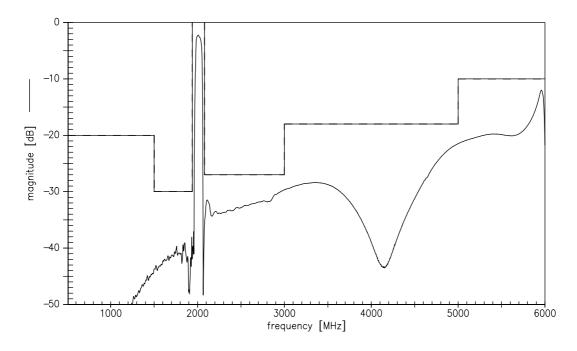
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SAW Components				B5072
SAW Rx filter				2010.00 MHz
Data sheet		=M		
Maximum ratings				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	5	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 1 pulse
Input power at				
2000.0 2020.0 MHz	P _{IN}	7.0	dBm	CW

 $^{1)}\,$ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.

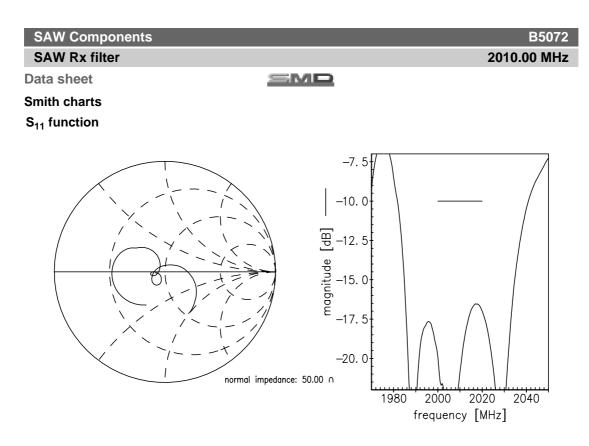


Transfer function (wideband)

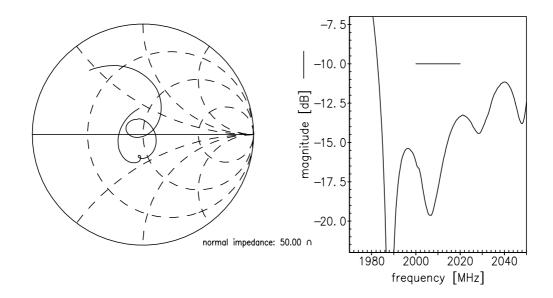


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S₂₂ function



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SAW Components

B5072 2010.00 MHz

SAW Rx filter

SMD

References

Туре	B5072
Ordering code	B39202B5072U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B5072_NB.s2p B5072_WB.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 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 .

Published by EPCOS AG

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