

RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

SAW Components

SAW Rx filter

TETRA

Series/type: B5055 Ordering code: B39431B5055Z810

Date: Version: April 22, 2008 2.0

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SAW Components	B5055
SAW Rx filter	425.00 MHz

SMD

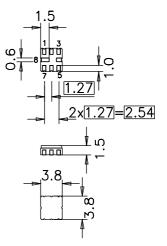
Data sheet

Application

- Low-loss IF filter for base station TETRA systems, receive path (Rx)
- Unbalanced to unbalanced or unbalanced to balanced opertation
- Low amplitude ripple
- No external matching required
- Usable passband 10 MHz

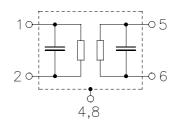
Features

- Package size 3.8 x 3.8 x 1.35 mm³
- Package code QCC8B
- RoHS compatible
- Approximate weight 0.07 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 5 Input
- 1 Output / Output balanced
- 2 Output ground / Output balanced
- To be grounded ■ 3,6,7
- 4,8 Case ground



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

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SAW Components SAW Rx filter 425 Data sheet Contracteristics Temperature range for specification: T = -30 °C to +70 °C Terminating source impedance: $Z_s = 50 \Omega$ 50 Ω Terminating load impedance: $Z_L = 50 \Omega$ Center frequency fc - 425.00 - MHz Maximum insertion attenuation 420.0 430.0 MHz α_{max} - 2.7 3.51 ° dB Amplitude ripple (p-p) $\Delta \alpha$ - 1.2 2.02 ° dB Return Loss (VSWR) 420.0 430.0 MHz - 1.9 2.1 dB Attenuation α - 1.9 2.1 dB 415.0 MHz 37 50 - dB dB 435.0 474.0 MHz 8 12 - dB - 474.0 491.0 MHz 8 12 - dB - 474.0 491.0 MHz 26 50 - dB - 491.0 582.0 MHz 37 45 - dB -			_	_	_	_	
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3.0dB max at +15°C to +35°
1.5dB max at +15°C to +35°

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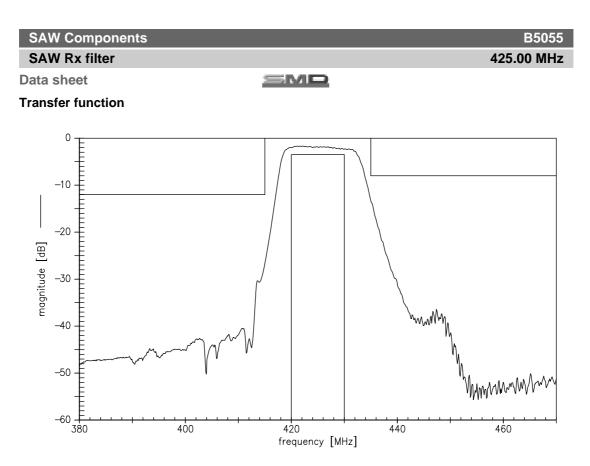
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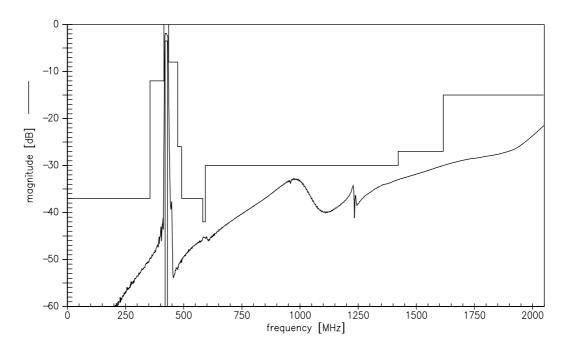
SAW Components				B5055
SAW Rx filter				425.00 MHz
Data sheet		SM		
Maximum ratings				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	5	V	
ESD voltage	V _{ESD}	1001)	V	machine model, 1 pulse
Input power at				
420.0 430.0MHz	P _{IN}	15	dBm	Continuous Wave

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

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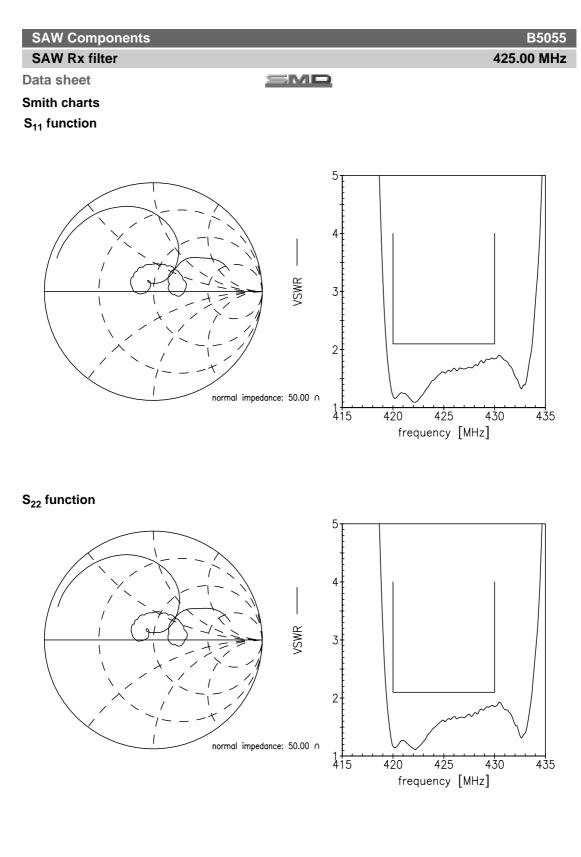
Transfer function (wideband)



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SAW Components

B5055 425.00 MHz

SAW Rx filter

Data sheet

SMD

References

Туре	B5055
Ordering code	B39431B5055Z810
Marking and package	C61157-A7-A46
Packaging	F61074-V8167-Z000
Date codes	L_1126
S-parameters	B5055_NB.s2p B5055_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."

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Surface Acoustic Wave Components Division P.O. Box 80 17 09, 81617 Munich, GERMANY

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