

RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

#### **SAW Components**

SAW Rx filter

R-GSM

Series/type:B5056Ordering code:B39901B5056U410

Date:December 4, 2007Version:2.1

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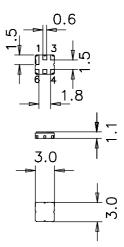
EPCOS AG is a TDK Group Company.

SAW Components		B5056
SAW Rx filter		895.50 MHz
Data Sheet	SMD	
Application		
Low-loss RE filter for base station		

- Low-loss RF filter for base station R-GSM systems, receive path (Rx)
- Low amplitude ripple
- Unbalanced to unbalanced operation
- No external matching required
- Usable passband 39 MHz

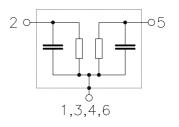
#### Features

- Package size 3.0 x 3.0 x 1.1 mm<sup>3</sup>
- 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 unbalanced
- 5 Output unbalanced
- 1,3,4,6 To be grounded



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

December 4, 2007

2

SAW Components		B5056
SAW Rx filter		895.50 MHz
Data Sheet		
Characteristics		
Temperature range for specification: Terminating source impedance: Terminating load impedance:	T = -30 °C to +80 °C $Z_{S} = 50\Omega$ $Z_{L} = 50\Omega$	

	min.	typ.	max.	
		@ 25 °C		
Center frequency f <sub>C</sub>	_	895.5	_	MHz
Maximum insertion attenuation $\alpha_{max}$				
876.0 915.0 MHz	—	2.1	3.2 <sup>1)</sup>	dB
Amplitude ripple (p-p) $\Delta \alpha$				
876.0 915.0 MHz	-	1.2	2.0 <sup>2)</sup>	dB
Return loss (VSWR)				
876.0 915.0 MHz	_	2.2	3.0	
Attenuation a				
0.3 856.0 MHz	17	19	_	dB
925.0 935.0 MHz	<b>3</b> 3)	10	_	dB
935.0 2000.0 MHz	20	22	—	dB

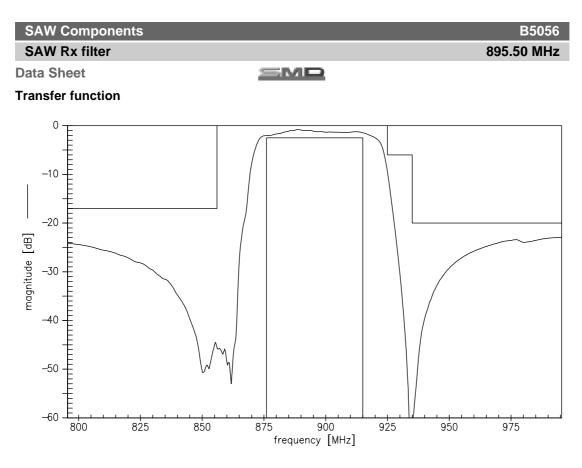
1) 2.5dB max at +25°C

<sup>2)</sup> 1.5dB max at +25°C
<sup>3)</sup> 6.0dB max at +25°C

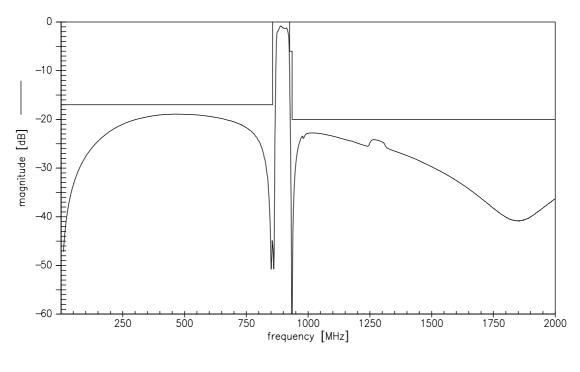
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SAW Components				B5056
SAW Rx filter				895.50 MHz
Data Sheet		SM		
Maximum ratings				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	V <sub>DC</sub>	5	V	
ESD voltage	V <sub>ESD</sub>	50 <sup>1)</sup>	V	machine model, 10 pulses
Input power at				
876.0 915.0MHz	P <sub>IN</sub>	17	dBm	CW

 $^{1)}\,$  acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.



#### Transfer function (wideband)

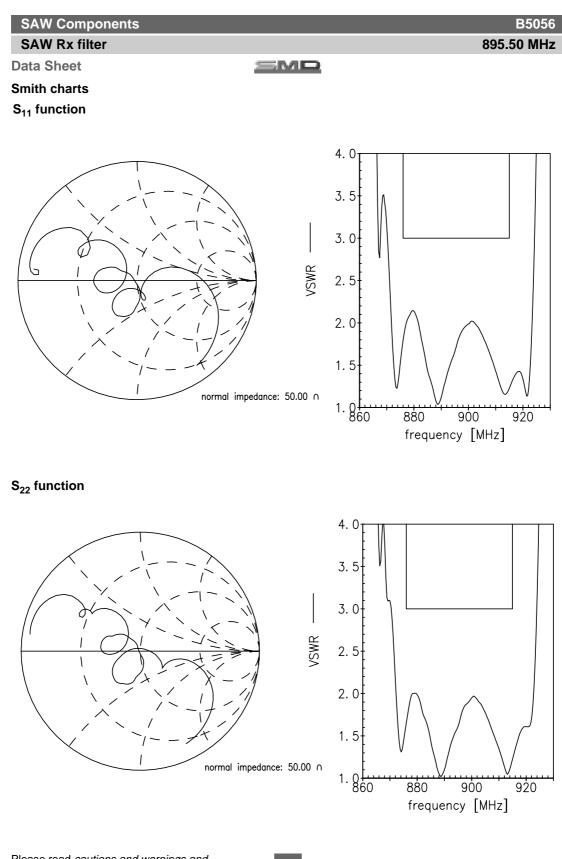


5

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December 4, 2007

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December 4, 2007

6

SAW Components

B5056 895.50 MHz

SAW Rx filter

SMD

#### References

Туре	B5056
Ordering code	B39901B5056U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B5056_NB.s2p B5056_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 .

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December 4, 2007

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