

SAW Components

SAW Rx filter TD-SCDMA Band 38

Series/Type: Ordering code: B9891 B39262B9891P810

Date: Version: March 6, 2013 2.0

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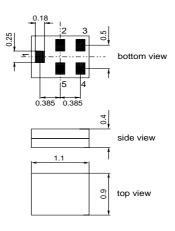
SAW Components	B9891
SAW Rx Filter	2595.0 MHz
Data Sheet SMD	
Application	
Low-loss RF filter for mobile telephone TD-SCDMA systems	
Unbalanced to balanced operation	

- Low amplitude ripple
- Usable passband 50 MHz
- Impedance transformation from 50 Ω to 150 Ω



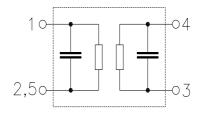
Features

- Package size 1.1 x 0.9 x 0.4 mm³
- RoHS compatible
- Approx. weight 0.001g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitive Level 3



Pin configuration

- 1 Input, unbalanced
- 3,4 Output, balanced
- 2,5 Case-ground



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

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					B9891
					2595.0 MHz
9	EMI				
Temperature range for specification: $T = -30$ °C to +85 °CTerminating source impedance: $Z_{\rm S} = 50 \Omega$ Terminating load impedance: $Z_{\rm L} = 150 \Omega \parallel 56$ nH (balanced)					
		min.	typ. @ 25°C	max.	
	f _C	_	2595.0	_	MHz
MHz	α_{max}		1.6	2.6	dB
MHz	Δα	_	0.5	1.6	dB
MHz		_	1.5	2.0	
MHz		_	1.5	2.0	
MHz		19	23	_	dB
MHz MHz MHz MHz MHz	α	35 35 30 18 15	50 47 40 23 21	 	dB dB dB dB dB dB
	MHz MHz MHz MHz MHz MHz MHz MHz MHz MHz	$\begin{array}{c} T & = \\ Z_{S} & = \\ Z_{L} & = \end{array}$ $\begin{array}{c} f_{C} \\ \alpha_{max} \\ \\ MHz \\ \\ \\ MHz \\ \\ \\ MHz \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{cccc} Z_{\rm S} & = & 50 \Omega \\ Z_{\rm L} & = & 150 \Omega \\ & 150 \Omega \\ \end{array}$ $\begin{array}{cccc} & & & & & \\ & & & \\ & & & & \\ & & $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

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SAW Components				B9891
SAW Rx Filter				2595.0 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	N/	50 1)		machine model, 10 pulse

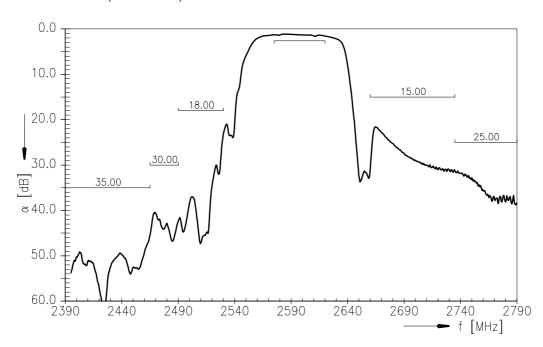
LOD Voltage	V _{ESD}	50 ¹⁾	V	
Input Power at				
2570.0 2620.0 MHz	P _{IN}	8	dBm	effective power in the on-state duty cycle 4:8

 $^{1)}\,$ acc. to JESD22-A115B (machine model), 10 negative & 10 positive pulse.

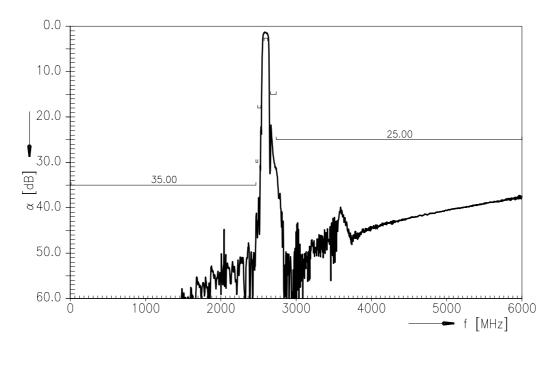
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Transfer function (narrowband)

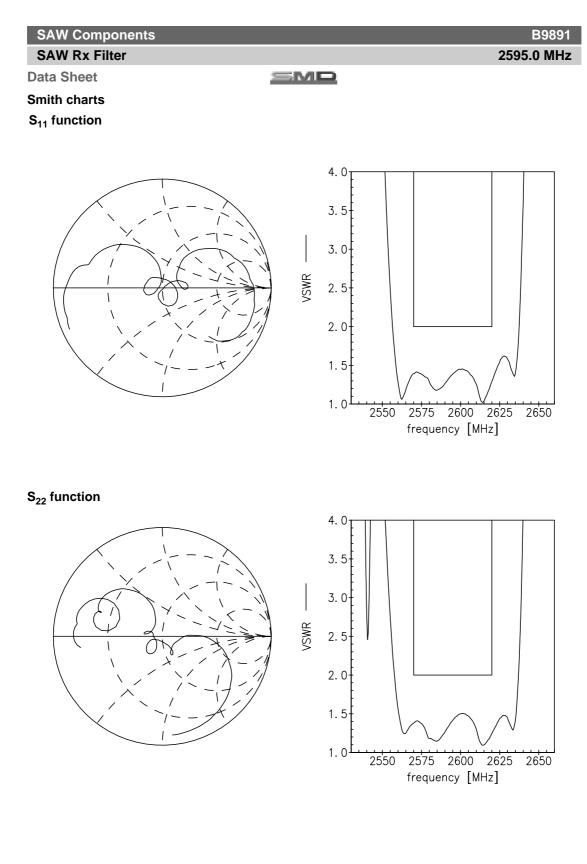


Transfer function (wideband)



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SAW Components

B9891 2595.0 MHz

SAW Rx Filter

SMD

Туре	B9891
Ordering code	B39262B9891P810
Marking and package	C61157-A8-A56
Packaging	F61074-V8255-Z000
Date codes	L_1126
S-parameters	B9891_NB.s3p, B9891_WB.s3p 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."
Matching coils	See Inductor pdf-catalog http://www.tdk.co.jp/tefe02/coil.htm#aname1 and Data Library for circuit simulation http://www.tdk.co.jp/etvcl/index.htm

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