

SAW Components

SAW Rx filter TD-SCDMA Band 38

Series/Type: Ordering code:

B9491 B39262B9491P810

Date: Version: December 05, 2011 2.0

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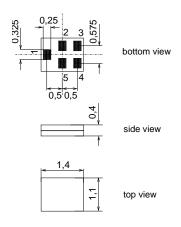
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SAW Components		B9491
SAW Rx Filter		2595.0 MHz
Data sheet	SMD	
Application		
 Low-loss RF filter for mobile tele systems Unbalanced to balanced operation Low amplitude ripple Usable passband 50 MHz Impedance transformation from 5 	on	© 95-105 905-05 1478

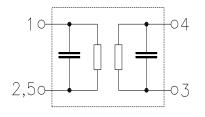
Features

- Package size 1.4 x 1.1 x 0.4 mm³
- RoHS compatible
- Approx. weight 0.003g
- 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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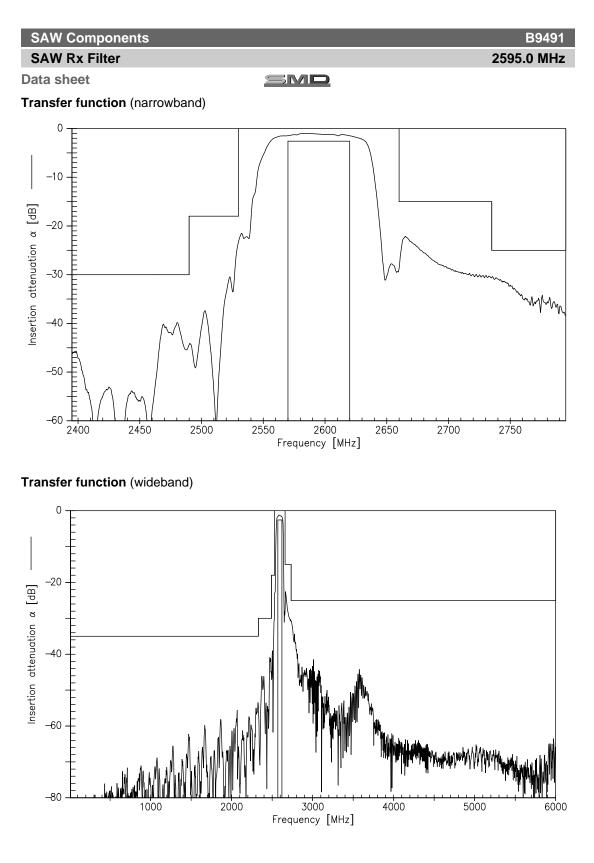
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Characteristics					
Temperature range for specification: Terminating source impedance: Terminating load impedance:	$T = Z_{S} = Z_{L} =$		to +85 °C 56 nH (ba	llanced)	
		min.	typ. @ 25°C	max.	
Center frequency	f _C	—	2595.0	—	MHz
Maximum insertion attenuation 2570.0 2620.0	$lpha_{max}$ MHz	_	1.5	2.6	dB
Amplitude ripple (p-p) 2570.0 2620.0	$\Delta \alpha$ MHz	_	0.5	1.6	dB
Input VSWR 2570.0 2620.0	MHz	_	1.6	2.0	
Output VSWR 2570.0 2620.0	MHz	_	1.5	2.0	
CMRR $(S_{21}-S_{31} / S_{21}+S_{31})$ 2570.0 2620.0	MHz	19	23	_	dB
Attenuation 0.1 2330.0 2330.0 2465.0 2490.0	α MHz MHz MHz	35 30 30	54 47 40		dB dB dB
2490.0 2530.0 2660.0 2735.0 2735.0 6000.0	MHz MHz MHz	18 15 25	23 22 30		dB dB 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}	50 ¹⁾	V	machine model, 1 pulse
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-A115A (machine model), 1 negative & 1 positive pulse.

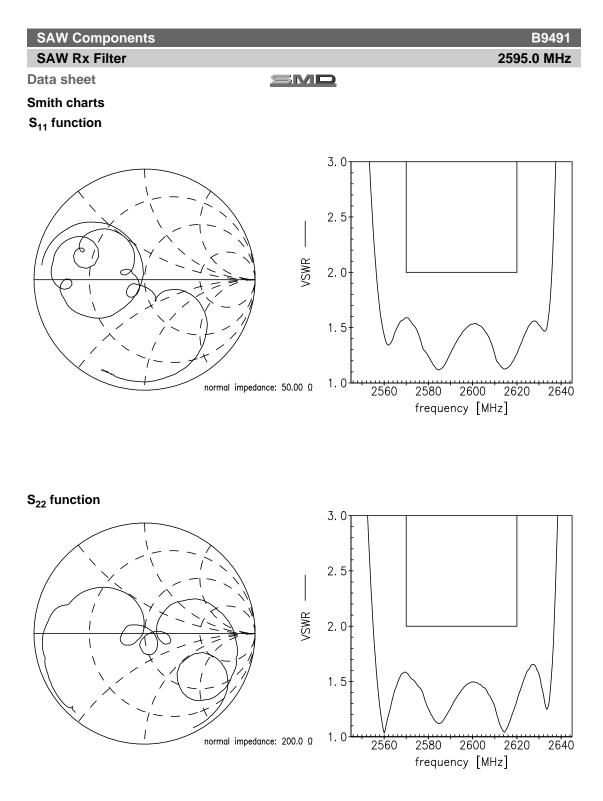
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B9491 2595.0 MHz

SAW Rx Filter

SMD

Туре	B9491	
Ordering code	B39262B9491P810	
Marking and package	C61157-A8-A14	
Packaging	F61074-V8237-Z000	
Date codes	L_1126	
S-parameters	B9491_NB.s3p, B9491_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 <u>http://www.tdk.co.jp/tefe02/coil.htm#aname1</u> and Data Library for circuit simulation <u>http://www.tdk.co.jp/etvcl/index.htm</u>	

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com.

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