

SAW Components

SAW Diversity filter LTE Band 17

Series/Type: Ordering code:

B9892 B39741B9892P810

Date: Version: June 13, 2014 2.1

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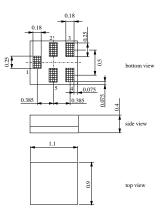
SAW Components	_	B9892
SAW components SAW Filter		740.0 MHz
SAWTINE		740.0 10112
Data Sheet	SMD	
Application		
 Low loss RF filter for LTE Band 17 sy sity) 	vstem (Rx diver-	

- Usable band width 12 MHz
- Unbalanced to balanced operation (50 Ω /100 Ω)



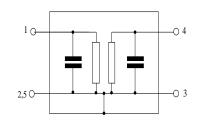
Features

- 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 To be grounded



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

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SAW Components						В
SAW Filter						740.0
Data Sheet	1	SMC				
Characteristics						
Temperature range for specification: Terminating source impedance: Terminating load impedance:		Z _S =	50Ω(o +85 °C unbalance balanced)		
			min.	typ. @ 25 °C	max.	
Nominal frequency		f _N	—	740.0	—	MHz
•• • • • • •						
Maximum insertion attenuation 734.0 746.0	MHz	α_{max}	_	1.8	2.3	dB
Amplitude ripple (p-p) 734.0 746.0	MHz	Δα	_	0.8	1.3	dB
Input VSWR 734.0 746.0	MHz		_	1.7	2.0	
Output VSWR 734.0 746.0	MHz		_	1.7	2.0	
CMRR $(S_{21}-S_{31} / S_{21}+S_{31})$ 734.0 746.0	MHz		25	40		dB
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	MHz MHz MHz MHz MHz MHz MHz MHz MHz MHz	α	50 46 40 30 10 33 40 40 40 40 40 40 40 40 40 40 40 40 40	68 51 48 47 31 38 51 65 65 65 65 65 65 65 65 65 65 50 50		dB dB dB dB dB dB dB dB dB dB dB dB dB d

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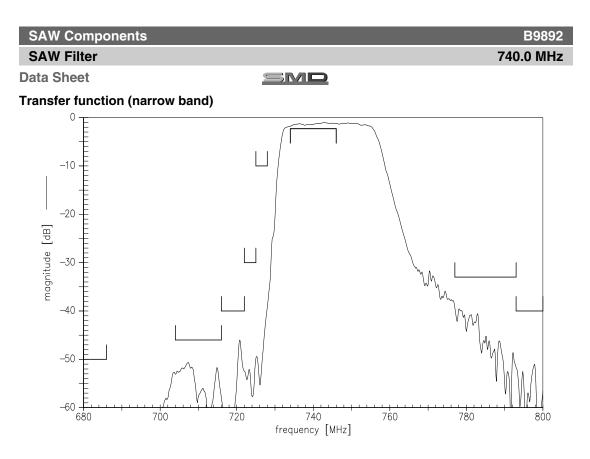
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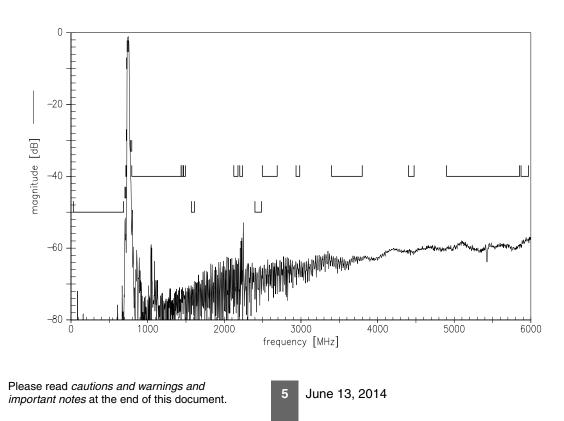
SAW Components				B9892
SAW Filter				740.0 MHz
Data Sheet		SM		
Maximum ratings				
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	5	V	
ESD voltage	V _{ESD}	100 ¹⁾	V	M model, 1 pulse
Input power				
704.0 716.0 MHz	P _{in}	15	dBm	T=85°C, 50 000 h

¹⁾ acc. to JESD22-A115A (Machine model), 1 negative & 1 positive pulses.

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Transfer function (wide band)



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SAW Components

B9892 740.0 MHz

SAW Filter Data Sheet

SMD

References

Туре	B9892
Ordering code	B39741B9892P810
Marking and package	C61157-A8-A56
Packaging	F61074-V8255-Z000
Date codes	L_1126
S-parameters	B9892_NB.s3p, B9892_WB.s3p see file header for port/in assignment table
Soldering profile	S_6001
RoHS compatible	RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Di- rective 2011/65/EU of the European Parliament and of the Council of June 8 th , 2011, on the restriction of the use of cer- tain hazardous substances in electrical and electronic equip- ment ("Directive") with due regard to the application of exemp- tions as per Annex III of the Directive in certain cases.
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

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

Published by EPCOS AG Systems, Acoustics, Waves Business Group

P.O. Box 80 17 09, 81617 Munich, GERMANY

 $\ensuremath{\mathbb{C}}$ EPCOS AG 2014. This brochure replaces the previous edition.

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