

SAW Components

SAW Diversity Filter LTE Band 13

Series/type: B9899

Ordering code: B39751B9899P810

Date: November 18, 2013

Version: 2.0

© EPCOS AG 2013. Reproduction, publication and dissemination of this data sheet, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.



SAW Components

B9899

SAW Diversity Filter

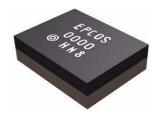
751 MHz

Data Sheet



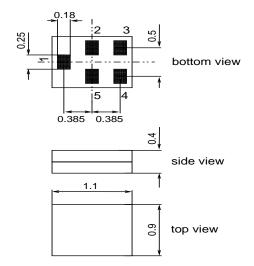
Application

- Low-loss RF filter for LTE systems (Rx diversity)
- \blacksquare Impedance 50Ω input and output
- Unbalanced / unbalanced operation
- Usable passband 10MHz



Features

- Package size 1.1 x0.9 x 0.4 mm³
- RoHS compatible
- Approximate weight 0.003 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitivity Level 3



Pin configuration

- 1 Input
- 4 Output
- 2,3,5 To be grounded

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



SAW Components B9899

751 MHz **SAW Diversity Filter**

Data Sheet

Characteristics

 $= -20 \,^{\circ}\text{C}$ to $+90 \,^{\circ}\text{C}$ Temperature range for specification: Terminating source impedance: $50\,\Omega$ (unbalanced) Terminating load impedance: 50Ω (unbalanced)

	min.	typ. @ 25 °C	max.	
Center frequency f _C	 	751	_	MHz
	_	1.71)	_	dB
Maximum insertion attenuation α _{max} 746.0 756.0MHz	_	2.0	2.5	dB
Amplitude ripple (p-p) 746.0 756.0MHz	_	0.5	1.0	dB
Input VSWR 746.0 756.0MHz	_	1.5	2.0	
Output VSWR 746.0 756.0MHz	_	1.5	2.0	
Absolute attenuation α				
10 686.0MHz 686.0 728.0MHz 771.0 772.0MHz 777.0 787.0MHz 777.0 787.0MHz 1710.0 1755.0MHz 1850.0 1910.0MHz 2400.0 2500.0MHz 4900.0 5950.0MHz	40 40 15 43 45 40 40 40 30	56 45 30 50 50 55 52 50 37		dB dB dB dB dB dB dB dB

¹⁾ Average value of parameter over the indicated band. The average value may vary over the time.
2) At 25°C



SAW Components				B9899
SAW Diversity Filter				751 MHz
Data Sheet		$\leq M$		
Maximum ratings				
Operable temperature range	T	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	100 ¹⁾	V	machine model, 1 pulse
Input power	P_{IN}	15	dBm	2000h at 50°C in 777.0787.0MHz

¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.

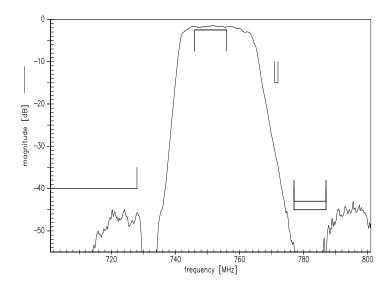


SAW Components B9899
SAW Diversity Filter 751 MHz

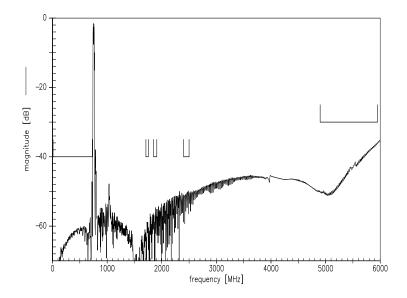
Data Sheet



Transfer function (Narrow band)



Transfer function (Wide band)



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





SAW Components B9899

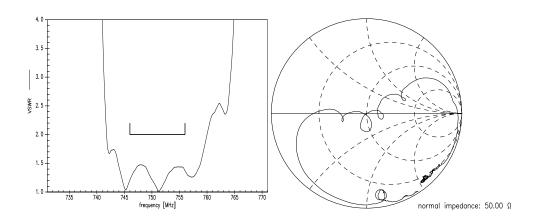
SMD

SAW Diversity Filter

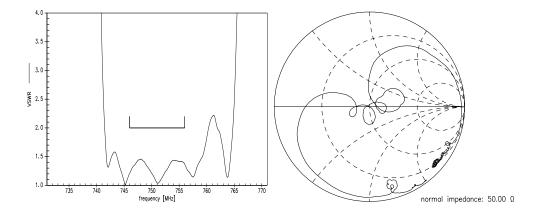
751 MHz

VSWR11

Data Sheet



VSWR22





SAW Components SAW Diversity Filter 751 MHz Data Sheet

References

Туре	B9899
Ordering code	B39751B9899P810
Marking and package	C61157-A8-A56
Packaging	F61074-V8255-Z000
Date codes	L_1126
S-parameters	B9899_NB.s2p, B9899_WB.s2p 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 Directive 2011/65/EU of the European Parliament and of the Council of June 8 th , 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive") with due regard to the application of exemptions as per Annex III of the Directive in certain cases.
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.
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 $\underline{www.epcos.com}$.

Published by EPCOS AG Systems, Acoustics, Waves Business Group P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2013. This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.

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



November 18, 2013



SAW Components B9899

SAW Diversity Filter 751 MHz

Data Sheet



The following applies to all products named in this publication:

- Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
- We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. In order to satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous). Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
- 5. We constantly strive to improve our products. Consequently, the products described in this publication may change from time to time. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also reserve the right to discontinue production and delivery of products. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.
- Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI).
- 7. The trade names EPCOS, BAOKE, Alu-X, CeraDiode, CeraLink, CeraPlas, CSMP, CSSP, CTVS, DeltaCap, DigiSiMic, DSSP, FilterCap, FormFit, MiniBlue, MiniCell, MKD, MKK, MLSC, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SIP5D, SIP5K, ThermoFuse, WindCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.

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

8

November 18, 2013

单击下面可查看定价,库存,交付和生命周期等信息

>>Qualcomm-RF360