



SAW Components

Rx SAW filter

LTE Band 17

Series/type:	B9480
Ordering code:	B39741B9480M410
Date:	October 10, 2011
Version:	2.1



SAW Components	B9480
Rx SAW filter	740.0 MHz

Data sheet



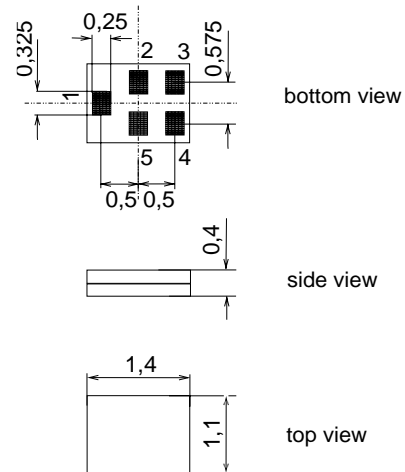
Application

- Rx SAW filter for telephone LTE Band 17 system
- Usable band width 12MHz
- Unbalanced to balanced operation (50 Ω/100 Ω)



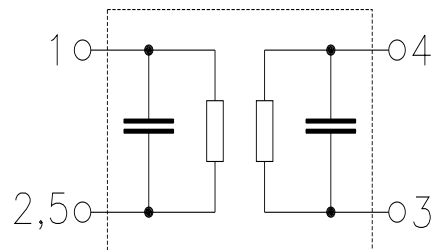
Features

- Package size 1.4 x 1.1 mm², package height 0.4 mm
- RoHS compatible
- Approx. weight 0.035 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**
- Moisture Sensitive Level 3



Pin configuration

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



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



SAW Components

B9480

Rx SAW filter

740.0 MHz

Data sheet



Characteristics

Temperature range for specification: T = -30 °C to +85 °C
 Terminating source impedance: Z_S = 50 Ω (unbalanced)
 Terminating load impedance: Z_L = 100 Ω (balanced)

		min.	typ. @ 25 °C	max.	
Nominal frequency	f _N	—	740.0	—	MHz
Maximum insertion attenuation 734.0 ... 746.0 MHz	α _{max}	—	2.2	3.5	dB
Amplitude ripple (p-p) 734.0 ... 746.0 MHz	Δα	—	0.8	1.8	dB
Input VSWR 734.0 ... 746.0 MHz		—	1.3	2.0	
Output VSWR 734.0 ... 746.0 MHz		—	1.4	2.0	
CMRR (S₂₁-S₃₁ / S₂₁+S₃₁) 734.0 ... 746.0 MHz		—	40	23	dB
Absolute attenuation	α				
30.0 ... 686.0 MHz		50	68	—	dB
704.0 ... 716.0 MHz		52	57	—	dB
716.0 ... 722.0 MHz		40	45	—	dB
722.0 ... 724.0 MHz		30	45	—	dB
724.0 ... 725.0 MHz		25	45	—	dB
725.0 ... 728.0 MHz		15	45	—	dB
777.0 ... 793.0 MHz		46	53	—	dB
793.0 ... 1438.0 MHz		40	66	—	dB
1438.0 ... 1462.0 MHz		40	69	—	dB
1468.0 ... 1492.0 MHz		40	68	—	dB
1570.0 ... 1610.0 MHz		50	75	—	dB
2124.0 ... 2178.0 MHz		40	65	—	dB
2202.0 ... 2238.0 MHz		40	52	—	dB
2400.0 ... 2484.0 MHz		40	68	—	dB
2496.0 ... 2690.0 MHz		40	66	—	dB
2936.0 ... 2984.0 MHz		40	65	—	dB
3400.0 ... 3800.0 MHz		40	59	—	dB
4404.0 ... 4476.0 MHz		40	57	—	dB
4900.0 ... 5850.0 MHz		40	54	—	dB
5872.0 ... 5968.0 MHz		40	54	—	dB

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



SAW Components **B9480**

Rx SAW filter **740.0 MHz**

Data sheet



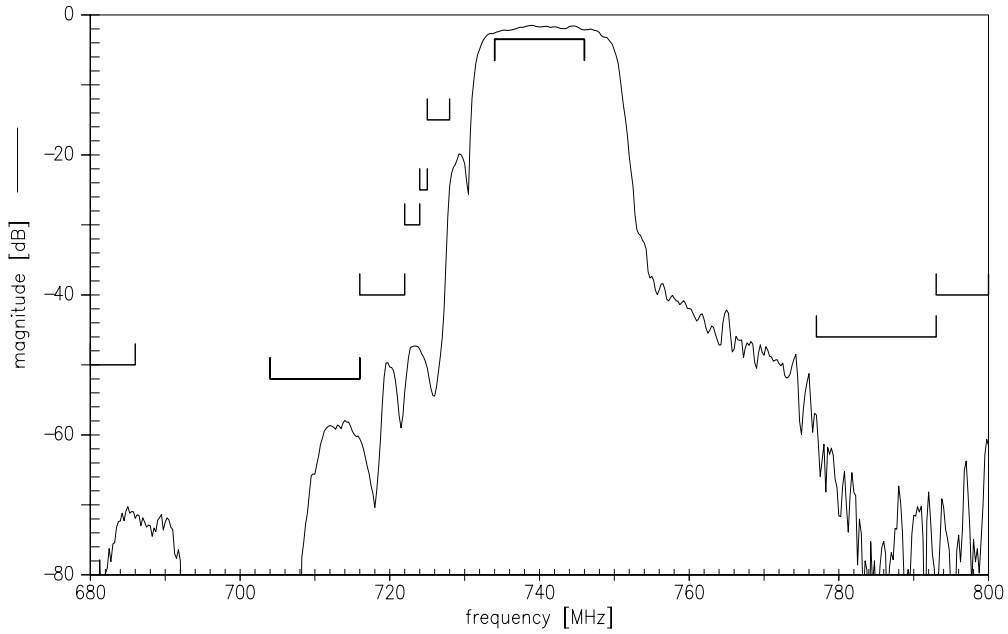
Maximum ratings

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
ESD voltage	V_{ESD}	300 ²⁾	V	HB model, 1 pulse
ESD voltage	V_{ESD}	600 ³⁾	V	CD model, 1 pulse
Input power 704.0 ... 716.0 MHz	P_{in}	15	dBm	T=85°C, 50 000 h

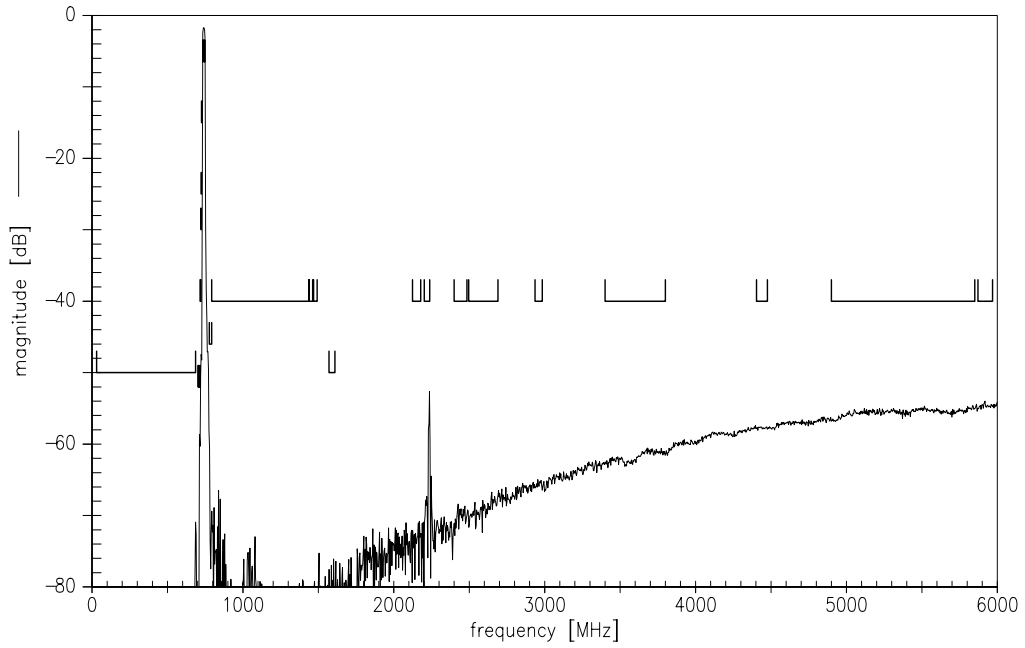
- 1) acc. to JESD22-A115A (Machine model), 1 negative & 1 positive pulses.
- 2) acc. to JESD22-A114F (Human Body model), 1 negative & 1 positive pulses.
- 3) acc. to JESD22-C101-C (Charge Device model), 1 negative & 1 positive pulses.



Transfer function (narrow band)



Transfer function (wide band)





SAW Components	B9480
Rx SAW filter	740.0 MHz
Data sheet	

References

Type	B9480
Ordering code	B39741B9480M410
Marking and package	C61157-A8-A1-*-27
Packaging	F61074-V8237-Z000-*-27
Date codes	L-1126
S-parameters	B9480_NB.s3p, B9480_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 maximum 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

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

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

© EPCOS AG 2011. 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.



Important notes

The following applies to all products named in this publication:

1. 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.
2. 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.
6. 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, CSMP, CSSP, CTVS, DeltaCap, DigiSiMic, DSSP, 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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.