

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









SAW filters for mobile communications

Series/Type: B9429

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39252B9429K610	B39252B9455M410	2009-07-31	2009-11-30	2010-02-28

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



SAW Components

B9429

SAW WLAN filter

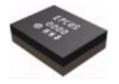
2450.0 MHz

Data sheet



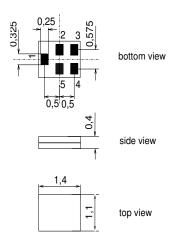
Application

- Low-loss RF filter for WLAN
- Unbalanced to balanced operation
- Low insertion attenuation
- Usable passband 100 MHz



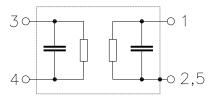
eatures

- Package size 1.4 x1.1 x 0.4 mm³
- Package code QCS5F
- RoHS compatible
- Approximate weight 0.003 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 1 Unbalanced input
- 3,4 Balanced output
- 2,5 To be grounded





SAW Components B9429

SAW WLAN filter 2450.0 MHz

Data sheet

Characteristics

Operating temperature range: $T = +25 \,^{\circ}C$

Terminating source impedance: $Z_S = 50\Omega - 2.0 \, \text{nH}$ Terminating load impedance: $Z_L = 180\Omega \parallel 9.5 \, \text{nH}$

	min.	typ. @ 25 °C	max.	
Center frequency f	f _C —	2450.0	_	MHz
Maximum insertion attenuation	α_{max}			
2400.0 2500.0 MHz	_	2.4	2.9 1)	dB
	Δα			
2400.0 2500.0 MHz	_	0.7	1.5	dB
Input VSWR				
2400.0 2500.0 MHz	_	1.7	2.0	
Output VSWR				
2400.0 2500.0 MHz	_	1.7	2.0	
Attenuation	α			
100.0 960.0 MHz	55	59	_	dB
960.0 1800.0 MHz	40	44	_	dB
1800.0 2100.0 MHz	40	44	_	dB
2100.0 2170.0 MHz	40	44	_	dB
2170.0 2250.0 MHz	20	44	_	dB
2650.0 2800.0 MHz	20	31	_	dB
2800.0 4000.0 MHz	25	36	_	dB
4000.0 6000.0 MHz	30	50	-	dB

¹⁾ including a pcb loss of 0.2dB



SAW Components

B9429 2450.0 MHz

Data sheet = MD

haracteristics

SAW WLAN filter

	!	A		
	min.	typ. @ 25 °C	max.	
Center frequency	f _C —	2450.0		MHz
Maximum insertion attenuation	α_{max}			
2400.0 2500.0 MHz	_	2.5	3.2 1)	dB
Amplitude ripple (p-p)	Δα			
2400.0 2500.0 MHz	_	1.0	1.6	dB
Input VSWR				
2400.0 2500.0 MHz	_	1.7	2.0	
Output VSWR				
2400.0 2500.0 MHz	_	1.7	2.0	
Attenuation				
100.0 960.0 MHz	σ 55	59		dB
960.0 1800.0 MHz	40	44	_	dВ
1800.0 2100.0 MHz	40	44	_	dВ
	_		_	
2100.0 2170.0 MHz	40	44	_	dB
2170.0 2250.0 MHz	20	44	_	dB
2650.0 2800.0 MHz	20	31	_	dB
2800.0 4000.0 MHz	25	36	_	dB
4000.0 6000.0 MHz	30	50	_	dB

¹⁾ including a pcb loss of 0.2dB



SAW Components		B9429
SAW WLAN filter		2450.0 MHz
Data sheet	SMD	

Maximum ratings

Operable temperature range	T	-30/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}	50 ¹⁾	V	machine model, 10 pulses
Input power at				
UMTS band I Tx band	P_{IN}	15	dBm	CW, +65°C 2000hr

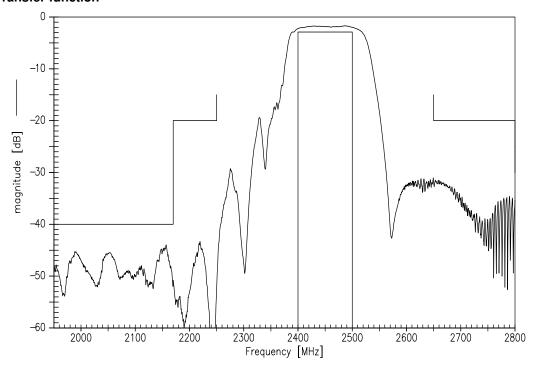
¹⁾ acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.



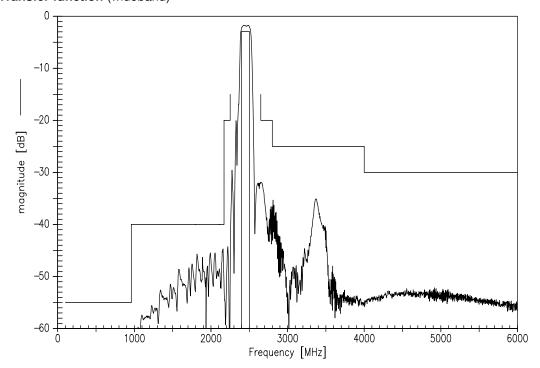
SAW Components B9429 SAW WLAN filter 2450.0 MHz

Data sheet

Transfer function



Transfer function (wideband)

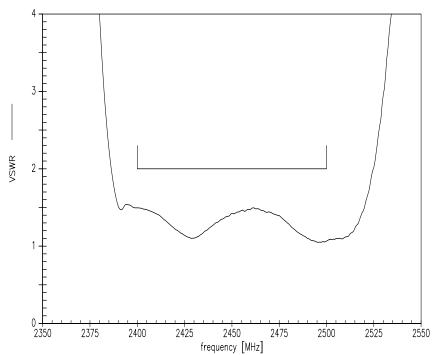




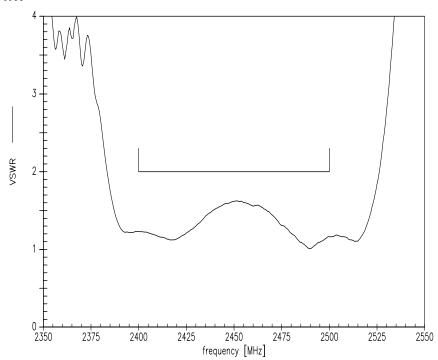
SAW Components B9429
SAW WLAN filter 2450.0 MHz

Data sheet

Input VSWR



Output VSWR





SAW Components		B9429
SAW WLAN filter		2450.0 MHz
Data sheet	SMD	

References

Туре	B9429	
Ordering code	B39252B9429K610	
Marking and package	C61157-A8-A1	
Packaging	F61074-V8212-Z000	
Date codes	L_1126	
S-parameters	LK41A_NB.s3p LK41A_WB.s3p	
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."	
Moldability	Before using in overmolding enviroment, please contact your EPCOS sales office	

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

Published by EPCOS AG Surface Acoustic Wave Components Division P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2009. 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.



Important notes

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, CSSP, CTVS, DSSP, MiniBlue, MKK, MLSC, MotorCap, PCC, PhaseCap, PhaseMod, SIFERRIT, SIFI, SIKOREL, SilverCap, SIM-DAD, 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