

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The following products presented in this data sheet are being withdrawn.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

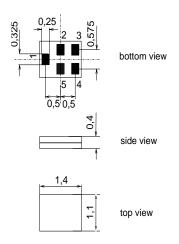
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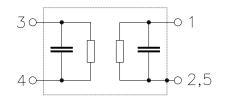
eatures

- 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



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SAW Components	-	-				B9429
SAW WLAN filter						2450.0 MHz
Data sheet	SMD					
Characteristics						
Operating temperature range: Terminating source impedance: Terminating load impedance:		Z _S =	= +25 °C = 50Ω - = 180Ω ∥	- 2.0 nH 9.5 nH		
			min.	typ. @ 25 °C	max.	
Center frequency		f _C	—	2450.0	—	MHz
Maximum insertion attenuation 2400.0 2500.0	MHz	α _{max}	_	2.4	2.9 ¹⁾	dB
Amplitude ripple (p-p) 2400.0 2500.0	MHz	Δα	_	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 100.0 960.0 960.0 1800.0 1800.0 1800.0 2100.0 2170.0 2170.0 2250.0 2650.0 2800.0 2800.0 6000.0	MHz MHz MHz MHz MHz MHz MHz	α	55 40 40 20 20 25 30	59 44 44 44 31 36 50		dB dB dB dB dB dB dB dB dB

¹⁾ including a pcb loss of 0.2dB

SAW Components SAW WLAN filter	-	-				B9429 2450.0 MHz
Data sheet						
haracteristics	1					
Derating temperature range: Terminating source impedance: Terminating load impedance:		$\begin{array}{rcl} T &=& -30 \ ^{\circ}\text{C} \ \text{to} \ +85 \ ^{\circ}\text{C} \\ Z_{\text{S}} &=& 50\Omega \ - \ 2.0 \ \text{nH} \\ Z_{\text{L}} &=& 180\Omega \ 9.5 \ \text{nH} \end{array}$				
			min.	typ. @ 25 °C	max.	
Center frequency		f _C		2450.0	_	MHz
Maximum insertion attenuation 2400.0 2500.0	MHz	$lpha_{max}$	_	2.5	3.2 ¹⁾	dB
Amplitude ripple (p-p) 2400.0 2500.0	MHz	Δα	_	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 100.0 960.0 960.0 1800.0 1800.0 2100.0 2100.0 2170.0 2170.0 2250.0 2650.0 2800.0 4000.0 6000.0	MHz MHz MHz MHz MHz MHz MHz MHz	α	55 40 40 20 20 25 30	59 44 44 44 31 36 50		dB dB dB dB dB dB dB dB dB

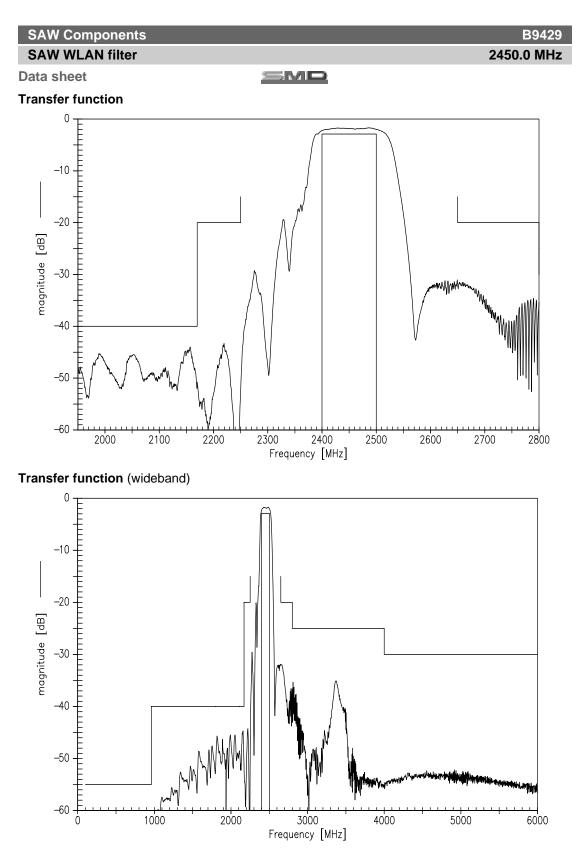
¹⁾ including a pcb loss of 0.2dB

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SAW Components SAW WLAN filter	-	-	B94 2450.0 M	
Data sheet	=MI			
Maximum ratings				
Operable temperature range T	-30/+85	°C		
Storage temperature range T _{stg}	-40/+85	°C		

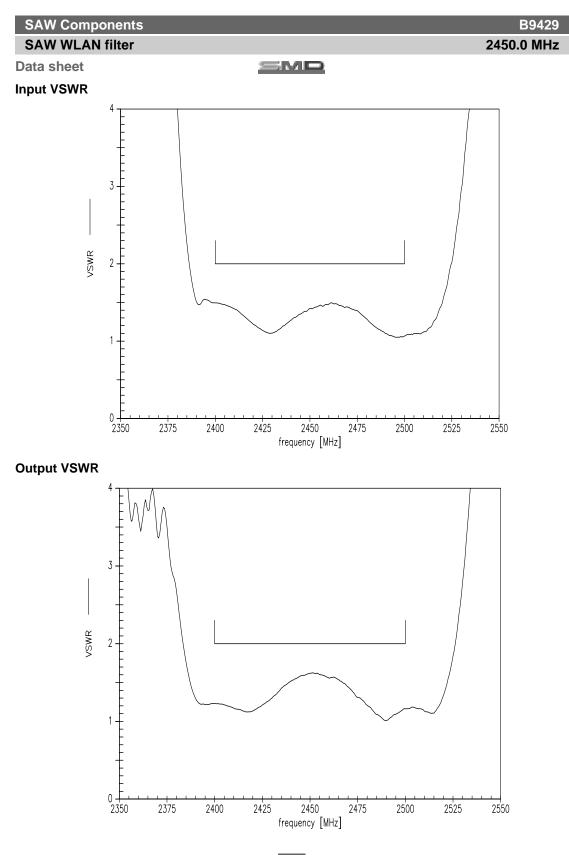
olorage temperature range	' stg	40/100	U	
DC voltage	V _{DC}	3	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 10 pulses
Input power at				
UMTS band I Tx band	P _{IN}	15	dBm	CW, +65°C 2000hr

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



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

6 March 09, 2009



March 09, 2009

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SAW Components

SAW WLAN filter

B9429 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 maxi- mum concentration values for certain hazardous substances in electrical and electronic equipment."		
Moldability	Before using in overmolding enviroment, please contact your EPCOS sales office		

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