

SAW Components

SAW filter GPS

Series/type: Ordering code: B9415 B39162B9415K610

Date: Version: January 23, 2009 2.3

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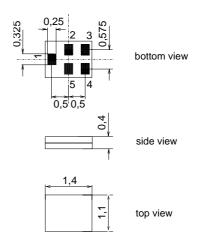
SAW Components	_	B9415
SAW filter		1575.42 MHz
Data sheet		
Application		
Low-loss RF filter for mobile telep	hone	

- GPS systems
- Filter impedance 50 Ω
- Unbalanced to unbalanced operation
- Very low insertion attenuation
- Low amplitude ripple
- Usable passband 2.0 MHz



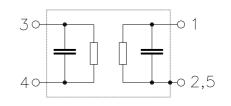
Features

- Package size 1.4 x1.1 x 0.4 mm³
- Package code QCS5U
- RoHS compatible
- Approximate weight 0.003 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

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



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

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SAW Components					4575
SAW filter					1575.
Data sheet	SM				
Characteristics					
1 5 1		50 Ω	to +85 °C	;	
		min.	typ. @ 25 °C	max.	
Center frequency	f _C		1575.42		MHz
Maximum insertion attenuation 1574.42 1576.42 MHz	α_{max}	_	0.6	1.0 ¹⁾	dB dB
Amplitude ripple (p-p) 1574.42 1576.42 MHz	Δα		0.0	0.3	dB
Input VSWR 1574.42 1576.42 MHz		_	1.2	1.6 ²⁾	
Output VSWR 1574.42 1576.42 MHz			1.2	1.6 ³⁾	
Attenuation 500.0 894.0 MHz	α	16	18	_	dB
894.0 1500.0 MHz		15	17	_	dB
1650.0 4000.0 MHz		17	19	—	dB
4000.0 6000.0 MHz		15	20	_	dB

 1)
 0.9dB max. at -30 °C ... 75 °C

 2)
 1.5 max. at -30 °C ... 75 °C

 3)
 1.5 max. at -30 °C ... 75 °C

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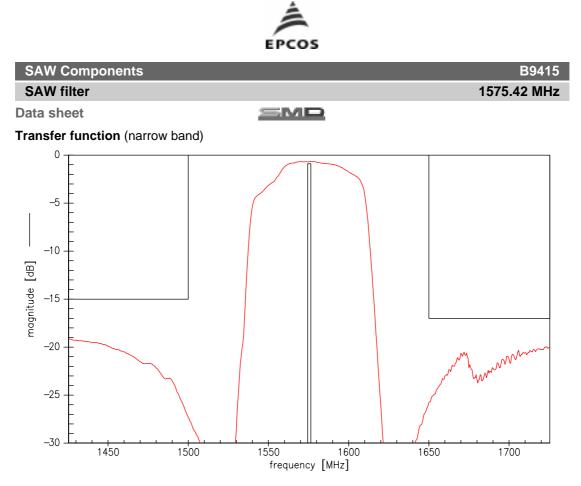
SAW Components				B9415
SAW filter			1	575.42 MHz
Data sheet	SMI	2		
Maximum ratings				

Operable temperature range	Т	-40/+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				source/load impedance $50\Omega/50\Omega$
1574.42 1576.42 MHz	P _{IN}	10	dBm	cw
2400 2483.5 MHz	P _{IN}	20	dBm	cw
824960, 17102170 MHz	P _{IN}	25	dBm	cw

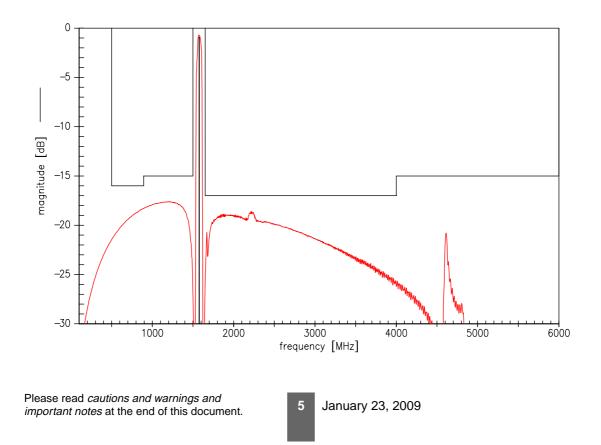
¹⁾ acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.

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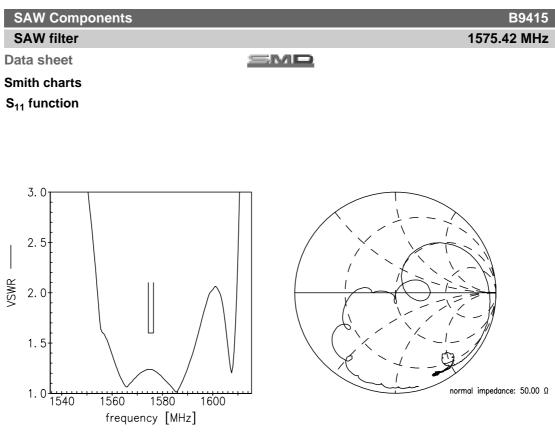




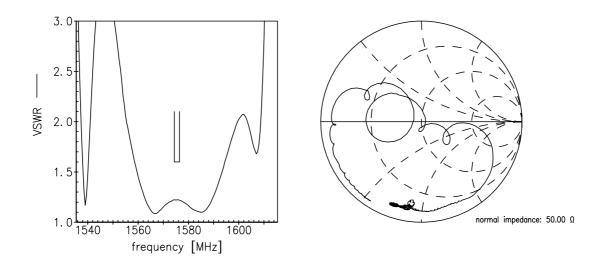
Transfer function (wide band)







S₂₂ function



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SAW filter Data sheet

SMD

References

Туре	B9415
Ordering code	B39162B9415K610
Marking and package	C61157-A8-A14
Packaging	F61074-V8237-Z000
Date codes	L_1126
S-parameters	B9415_NB.s2p B9415_WB.s2p "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 maxi- mum concentration values for certain hazardous substances in electrical and electronic equipment."
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.

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