

# SAW Filters for Mobile Communications

## Series/Type: B9037

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39162B9037E910	B39162B9444M410	2009-12-18	2010-06-30	2010-09-30

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		B9037
SAW GPS filter		1575.42 MHz
Data Sheet	SMD	

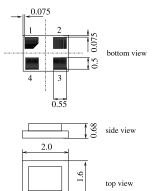
#### Application

- Low-loss RF filter GPS filter
- Usable passband: 2 MHz
- Very low insertion attenuation
- Unbalanced to unbalanced operation
- No matching network required for operation at 50 Ω



#### Features

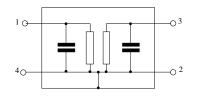
- Package size 2.0 x 1.6 x 0.68 mm<sup>3</sup>
- Package code DCS4G
- RoHS compatible
- Approximate weight 0.007 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



### **Pin configuration**

<b>1</b>	Input
	input

- 3 Output
- 2,4 Case ground



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

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SAW Components						B9037
SAW GPS filter					1575.4	42 MHz
Data Sheet	=M					
Characteristics of Filter						
Temperature range for specification: Terminating source impedance: Terminating load impedance:	-	50 Ω	to +85°C	;		
			<b>B9037</b> <sup>1)</sup>		DGL <sup>2)</sup>	
		min.	typ. @ 25 °C	max.	min./ max.	
Center frequency	f <sub>C</sub>	—	1575.42	—		MHz
Maximum insertion attenuation 1574.42 1576.42 MHz	α <sub>max</sub>	_	0.9	1.4		dB
Amplitude ripple (p-p) 4 1574.42 1576.42 MHz	Δα	_	0.05	0.5		dB
Return loss (Input and Output) 1574.42 1576.42 MHz		10	18	_		dB
0.3 1522.42 MHz 1628.42 1750.0 MHz 1750.0 1990.0 MHz 1990.0 3000.0 MHz	α	30 30 32 30	35 38 39 38			dB dB dB dB
3000.0 4000.0 MHz 4000.0 6000.0 MHz		20 17	33 28	_		dB dB

Values in columns min, typ and max indicate the development status of the current version.
Values in column DesignGoal (DGL) indicate the target performance.

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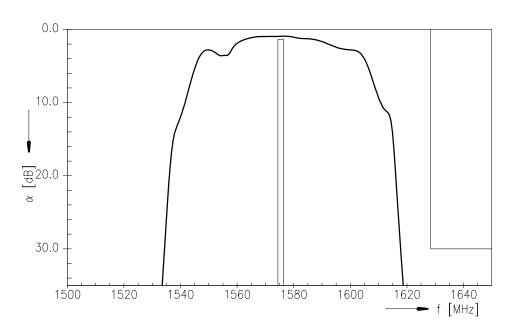
SAW Components				B9037
SAW GPS filter				1575.42 MHz
Data Sheet		$\equiv$ M		
Maximum ratings of Filter				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	V <sub>DC</sub>	5	V	
ESD voltage	$V_{ESD}$	50 <sup>1)</sup>	V	machine model, 10 pulses
Input power	P <sub>IN</sub>	0	dBm	cw

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

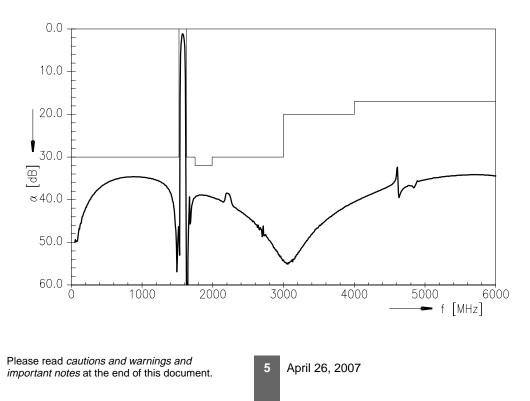
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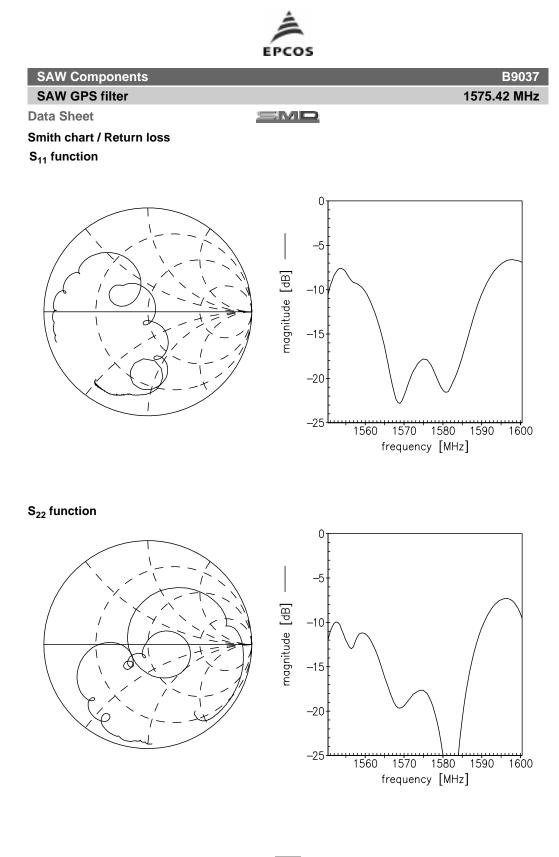


Transfer function (passband)



**Transfer function** 





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SAW Components	B9037
SAW GPS filter	1575.42 MHz
Data Sheet	

#### References

Туре	B9037
Ordering code	B39162-B9037-E910
Marking and package	C61157-A7-A105
Packaging	F61074-V8152-Z000
Date codes	L_1126
S-parameters	B9037_NB.s2p B9037_WB.s2p
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."

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