

SAW Filters for Mobile Communications

Series/Type: B9037

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39162B9037E910	B39162B9444M410	2012-07-27	2012-10-21	2013-01-21

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.

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SAW Components B9037

SAW GPS filter 1575.42 MHz

Data Sheet

Characteristics of Filter

Temperature range for specification: $T = -30 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_I = 50 \Omega$

		B9037 ¹⁾			DGL ²⁾	
		min.	typ. @ 25 °C	max.	min./ max.	
Center frequency	f _C	_	1575.42	_		MHz
Maximum insertion attenuation 1574.42 1576.42 MF	α _{max} Iz	_	0.9	1.4		dB
Amplitude ripple (p-p) 1574.42 1576.42 MF	Δα Iz	_	0.05	0.5		dB
Return loss (Input and Output) 1574.42 1576.42 MF	łz	10	18	_		dB
Attenuation 0.3 1522.42 MH 1628.42 1750.0 MH 1750.0 1990.0 MH 1990.0 3000.0 MH 3000.0 4000.0 MH 4000.0 6000.0 MH	łz łz łz łz	30 30 32 30 20 17	35 38 39 38 33 28	_ _ _ _ _		dB dB dB dB dB

¹⁾ Values in columns min, typ and max indicate the development status of the current version.

²⁾ Values in column DesignGoal (DGL) indicate the target performance.



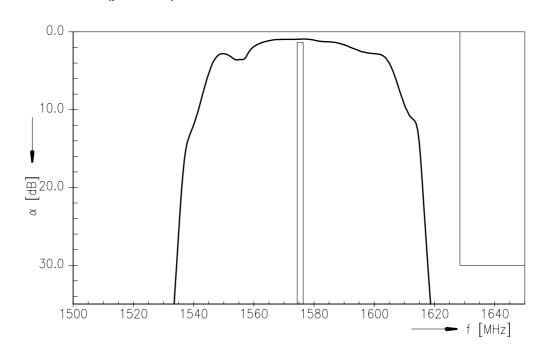
SAW Components				B9037
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Data Sheet		\equiv M		
Maximum ratings of Filter				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	50 ¹⁾	V	machine model, 10 pulses
Input power	P_{IN}	0	dBm	cw

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

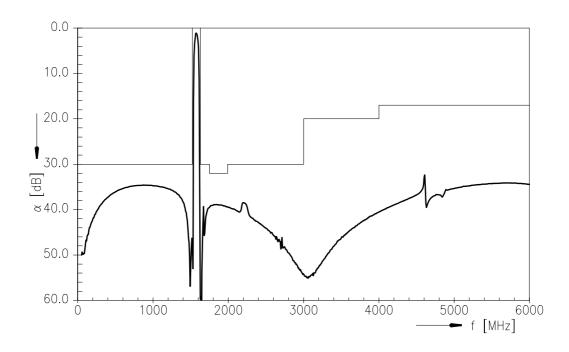




Transfer function (passband)



Transfer function



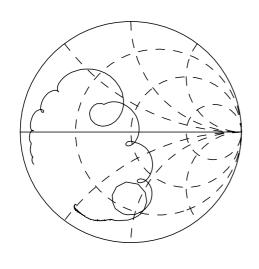


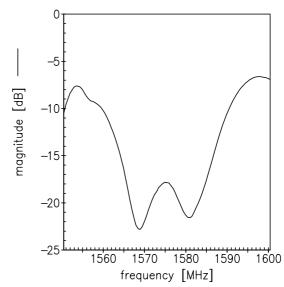
SAW Components B9037

SAW GPS filter 1575.42 MHz

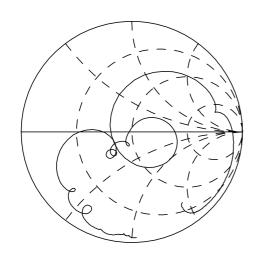
Data Sheet

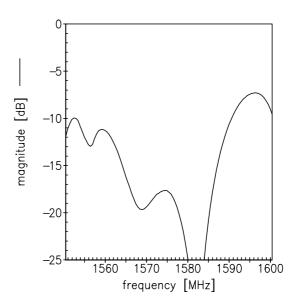
Smith chart / Return loss S₁₁ function





S₂₂ function







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SAW GPS filter		1575.42 MHz
Data Sheet	SMD	



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 maximum concentration values for certain hazardous substances in electrical and electronic equipment."	

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

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