

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The following products presented in this data sheet are being withdrawn.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

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SAW Components B9037

SAW GPS filter 1575.42 MHz

Data Sheet

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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: $Z_L = 50 \Omega$

		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 MHz	α_{max}	_	0.9	1.4		dB
Amplitude ripple (p-p) 1574.42 1576.42 MHz	Δα	_	0.05	0.5		dB
Return loss (Input and Output) 1574.42 1576.42 MHz		10	18	_		dB
Attenuation 0.3 1522.42 MHz 1628.42 1750.0 MHz 1750.0 1990.0 MHz 1990.0 3000.0 MHz 3000.0 4000.0 MHz 4000.0 6000.0 MHz		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.



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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.



SAW Components

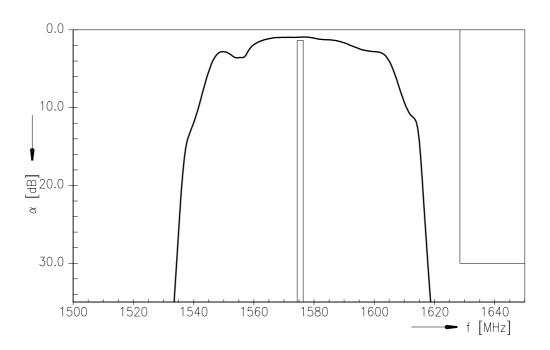
SAW GPS filter

Data Sheet

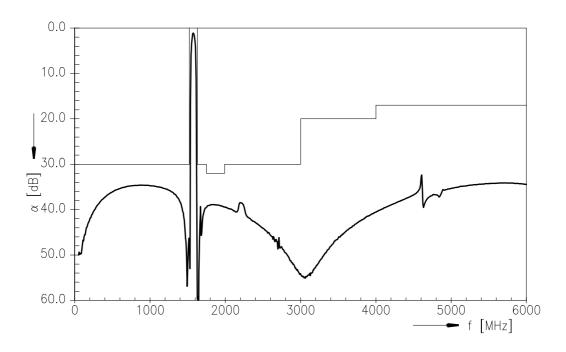
B9037

1575.42 MHz

Transfer function (passband)



Transfer function





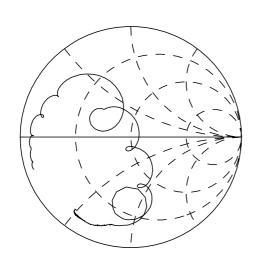
SAW Components B9037

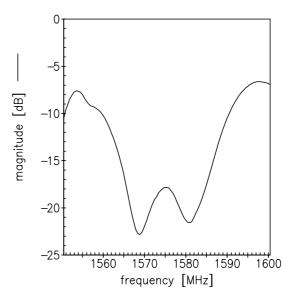
SAW GPS filter 1575.42 MHz

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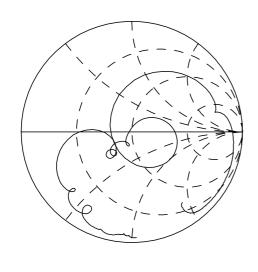


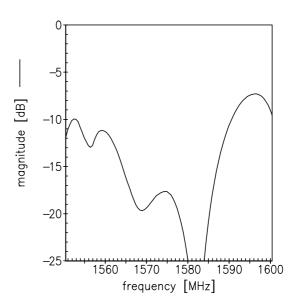
Smith chart / Return loss S₁₁ function





S₂₂ function







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

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

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