Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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The following products presented in this data sheet are being withdrawn.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

Data Sheet SMD

Characteristics of Filter

Temperature range for specification: T = –30 ˚C to +85˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		B9037[1]			DGL[2]	
		min.	**typ. @ 25 ˚C**	**max.**	**min./ max.**	
Center frequency	f_C	—	1575.42	—		MHz
Maximum insertion attenuation	α_{max}					
1574.42 ... 1576.42 MHz		—	0.9	1.4		dB
Amplitude ripple (p-p)	$\Delta\alpha$					
1574.42 ... 1576.42 MHz		—	0.05	0.5		dB
Return loss (Input and Output)						
1574.42 ... 1576.42 MHz		10	18	—		dB
Attenuation	α					
0.3 ... 1522.42 MHz		30	35	—		dB
1628.42 ... 1750.0 MHz		30	38	—		dB
1750.0 ... 1990.0 MHz		32	39	—		dB
1990.0 ... 3000.0 MHz		30	38	—		dB
3000.0 ... 4000.0 MHz		20	33	—		dB
4000.0 ... 6000.0 MHz		17	28	—		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.

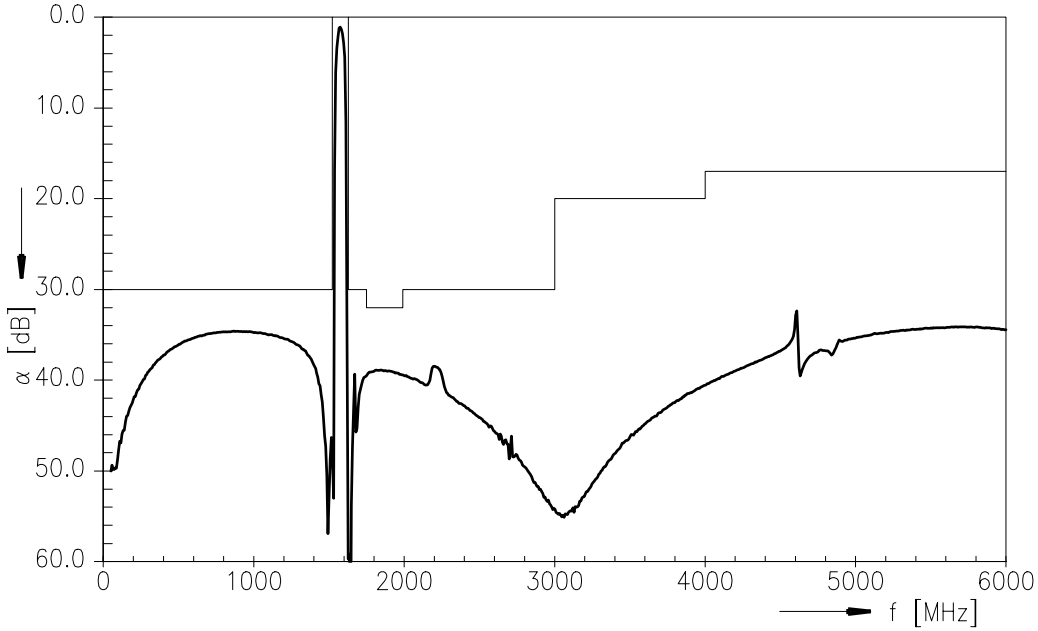
Maximum ratings of Filter

Operable temperature range	T	–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.

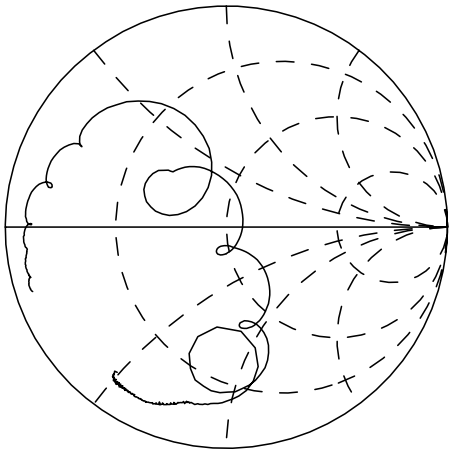
Transfer function (passband)

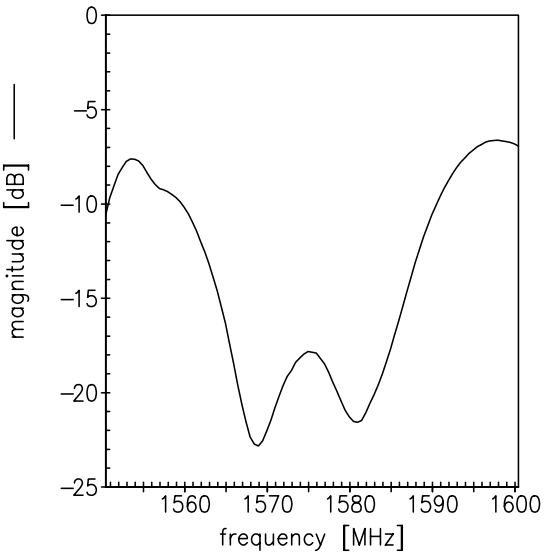
Transfer function



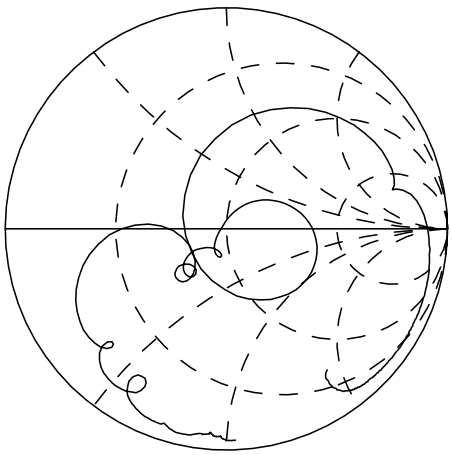
Smith chart / Return loss

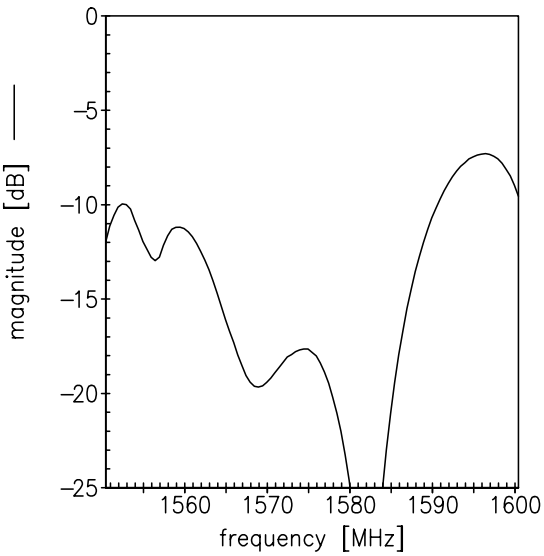
S_{11} function





S_{22} function





References

Type	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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