



SAW Filters for Mobile Communications

Series/Type: B9000

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39162B9000C710	B39162B9457P810	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

B9000

Low-Loss Filter for Mobile Communication

1575,42 MHz

Data Sheet



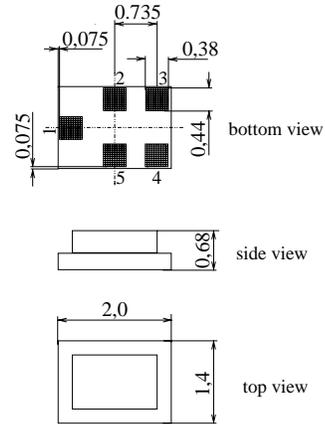
Chip sized SAW package

Features

- Low-loss RF filter for GPS
- Low amplitude ripple
- No matching network required for operation at 50 Ω
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

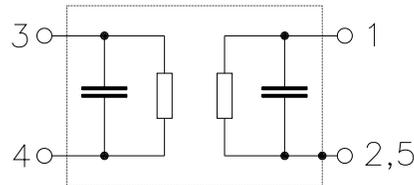
- Gold-plated Ni



Dimensions in mm, approx. weight 0,007 g

Pin configuration

- 4 Input, unbalanced
- 1 Output, unbalanced
- 2,5 Case ground
- 3 to be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B9000	B39162-B9000-C710	C61157-A7-A82	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 40/+ 85	°C	824...956, 1710...2170 MHz elsewhere
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	3	V	
Input Power max. (source impedance 50 Ω)	P_{IN}	25,0	dBm	
		10,0		



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Characteristics

Operating Temperature Range: $T = -40^{\circ}\text{C}$ to 85°C
 Terminating source impedance: $Z_S = 50\Omega$
 Terminating load impedance: $Z_L = 50\Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1575,42	—	MHz
Maximum insertion attenuation	α_{\max}				
	1574,42 ... 1576,42 MHz*)	—	0,5	0,8	dB
	1574,42 ... 1576,42 MHz	—	0,5	0,9	dB
Amplitude ripple	$\Delta\alpha$				
	1574,42 ... 1576,42 MHz	—	0,0	0,3	dB
Absolute attenuation	α				
	500,0MHz ... 894,0 MHz	16	18	—	dB
	894,0MHz ... 1500,0 MHz	15	17	—	dB
	1650,0MHz ... 4000,0 MHz	18	20	—	dB
	4000,0MHz ... 6000,0 MHz	15	20	—	dB
VSWR					
	1574,42MHz ... 1576,42MHz*)	—	1,1	1,5	
	1574,42MHz ... 1576,42 MHz	—	1,1	1,6	

*) $T_A = -30 \dots +70^{\circ}\text{C}$



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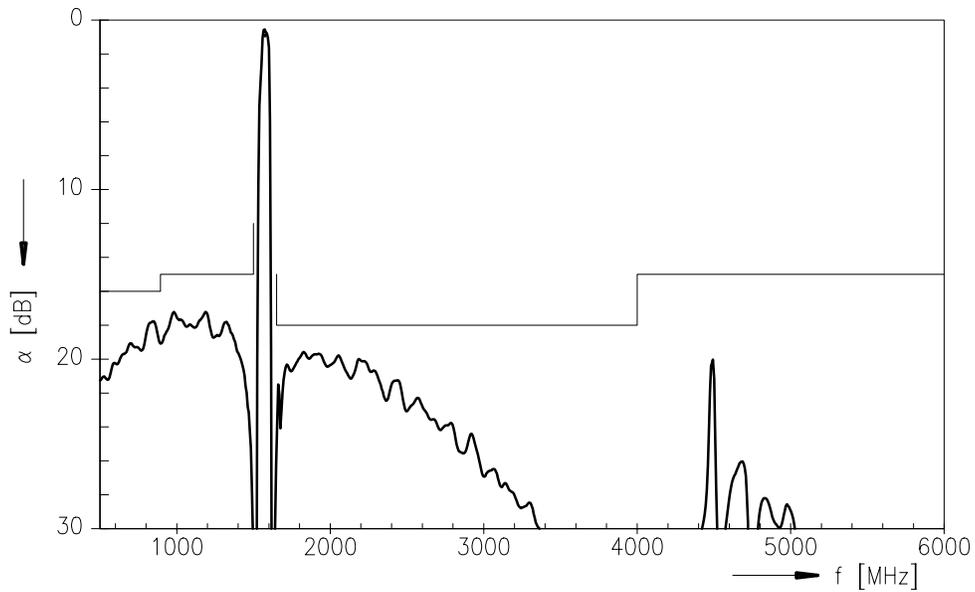
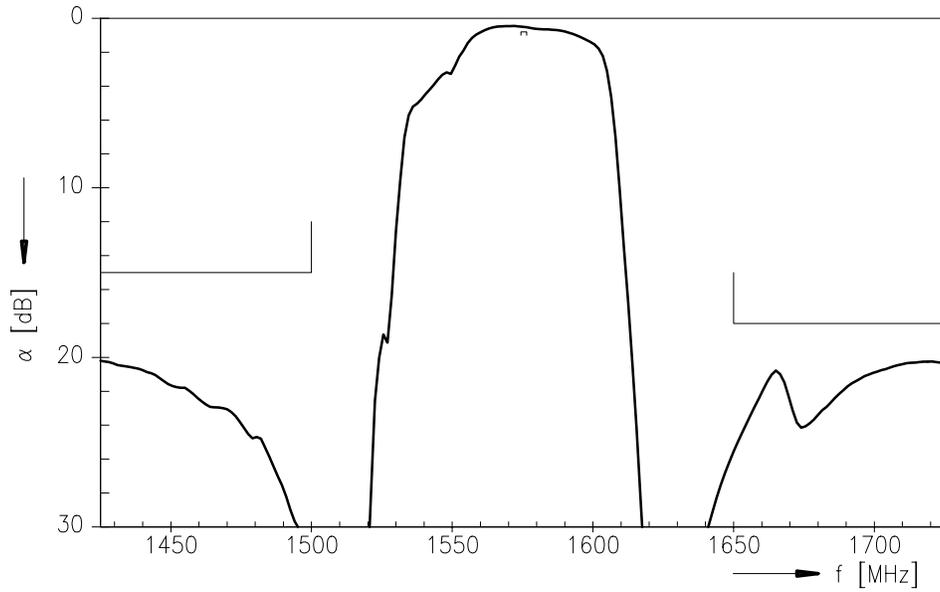
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Transfer function





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This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.