



# SAW Components

Data Sheet B9000

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe with circuitry patterns overlaid on it, all set against a dark, textured background.



## SAW Components

B9000

## Low-Loss Filter for Mobile Communication

1575,42 MHz

### Data Sheet



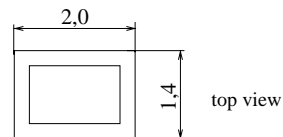
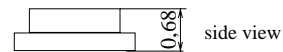
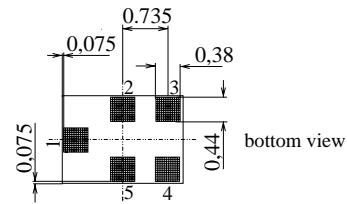
Chip sized SAW package

### Features

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

### Terminals

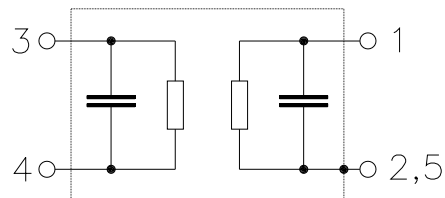
- Gold-plated Ni



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



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### Characteristics

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

		min.	typ.	max.	
<b>Center frequency</b>	$f_C$	—	1575,42	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
	1574,42 ... 1576,42 MHz*)	—	0,5	0,8	dB
	1574,42 ... 1576,42 MHz	—	0,5	0,9	dB
<b>Amplitude ripple</b>	$\Delta\alpha$				
	1574,42 ... 1576,42 MHz	—	0,0	0,3	dB
<b>Absolute attenuation</b>	$\alpha$				
	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
<b>VSWR</b>					
	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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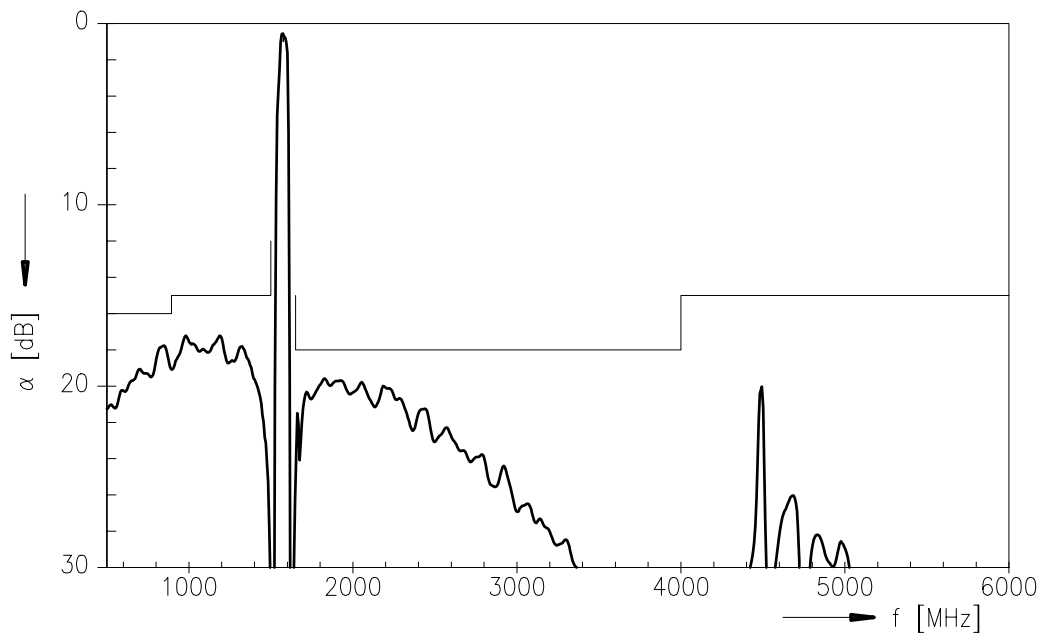
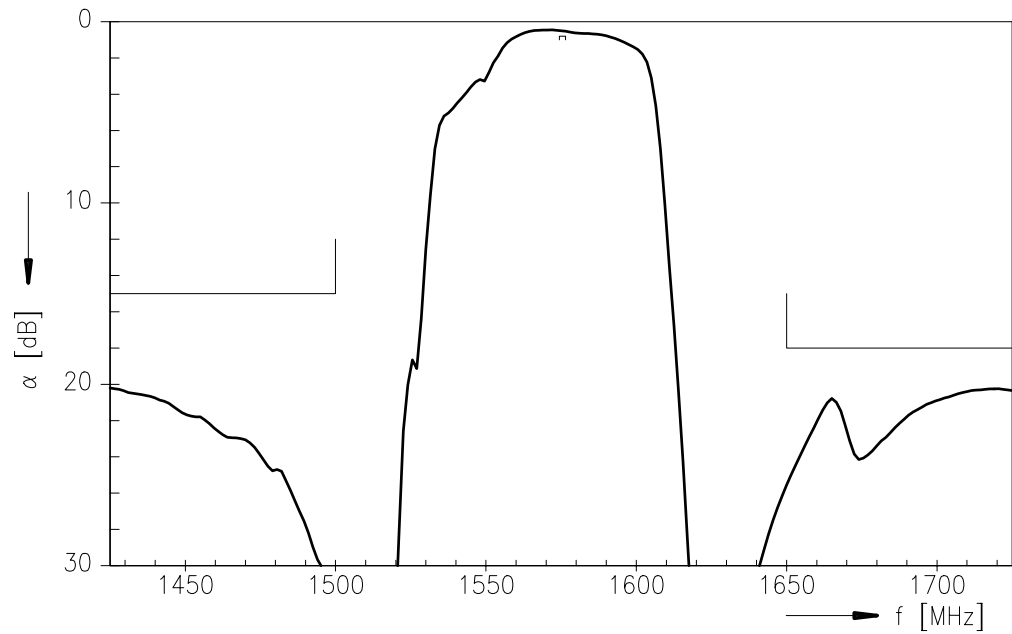
Low-Loss Filter for Mobile Communication

1575,42 MHz

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### Transfer function





<b>SAW Components</b>	<b>B9000</b>
<b>Low-Loss Filter for Mobile Communication</b>	<b>1575,42 MHz</b>
<b>Data Sheet</b>	<b>SMD</b>

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**SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY**

**TEL ++49 89 636 09, FAX ++49 89 636 2 26 89**

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