



# SAW Components

Data Sheet B9000





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B9000

Low-Loss Filter for Mobile Communication

1575,42 MHz

Data Sheet



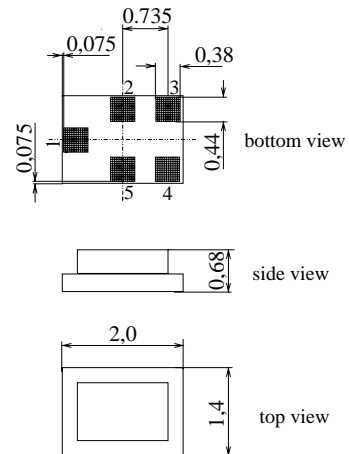
Chip sized SAW package

**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**

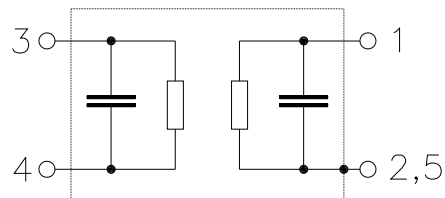
- Gold-plated Ni



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  $85^{\circ}\text{C}$   
 Terminating source impedance:  $Z_S = 50\Omega$   
 Terminating load impedance:  $Z_L = 50\Omega$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<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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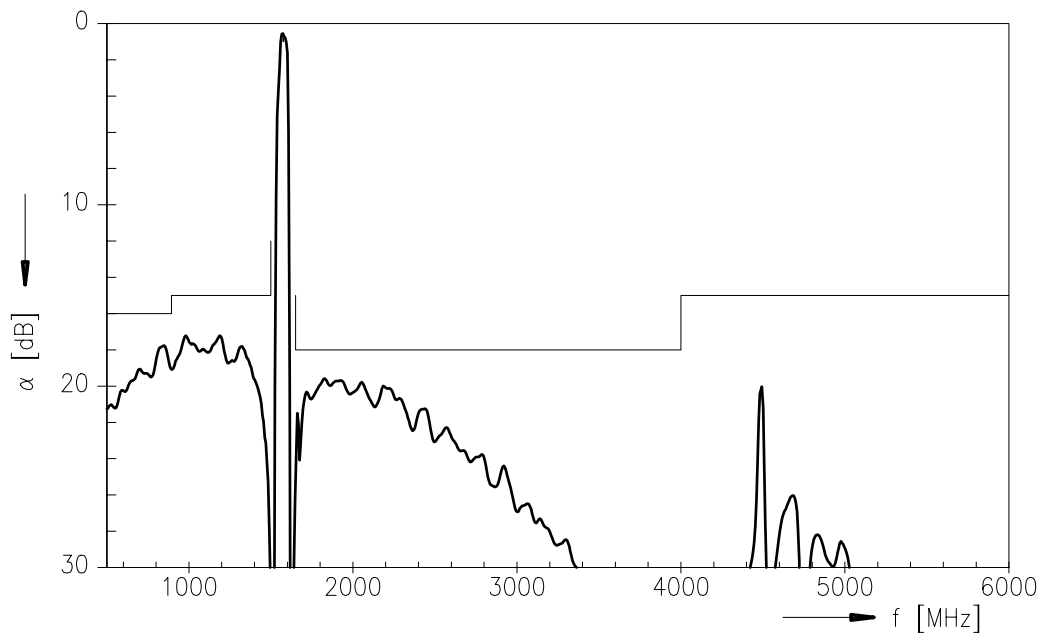
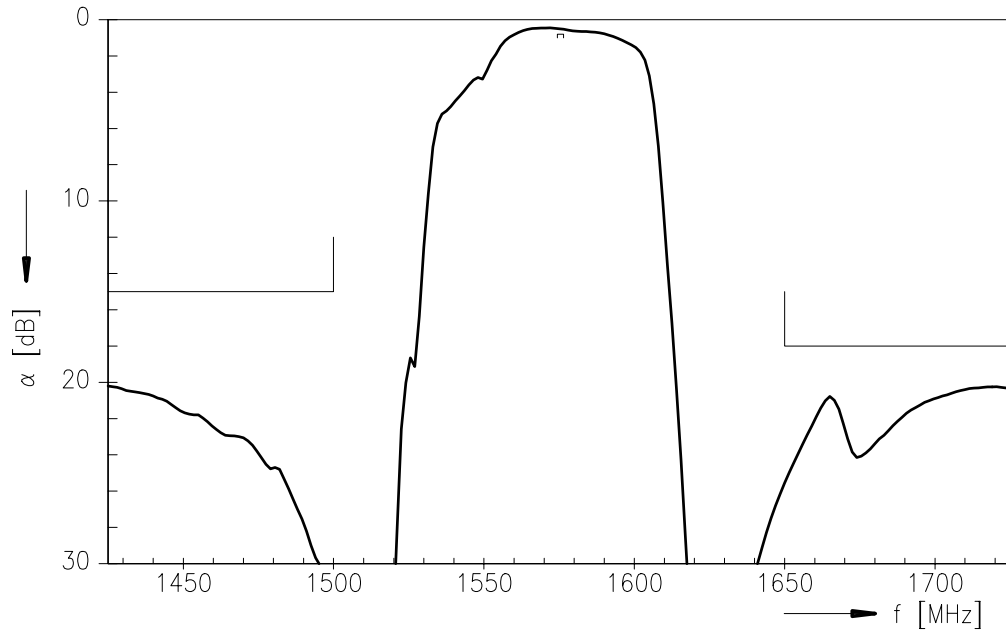
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Transfer function





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