



SAW Components

Data Sheet B9000

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid pattern, overlaid with a large, stylized, and slightly blurred "EPCOS" logo. The logo is rendered in a light gray color, creating a sense of depth and motion. The background is dark and textured, with light rays emanating from behind the globe.



SAW Components

B9000

Low-Loss Filter for Mobile Communication

1575,42 MHz

Data Sheet



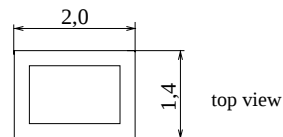
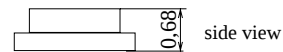
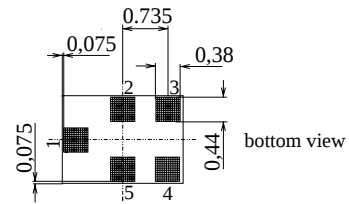
Chip sized SAW package

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

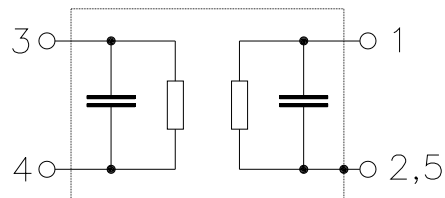
- Gold-plated Ni



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



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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	$\alpha_{\max}$				
	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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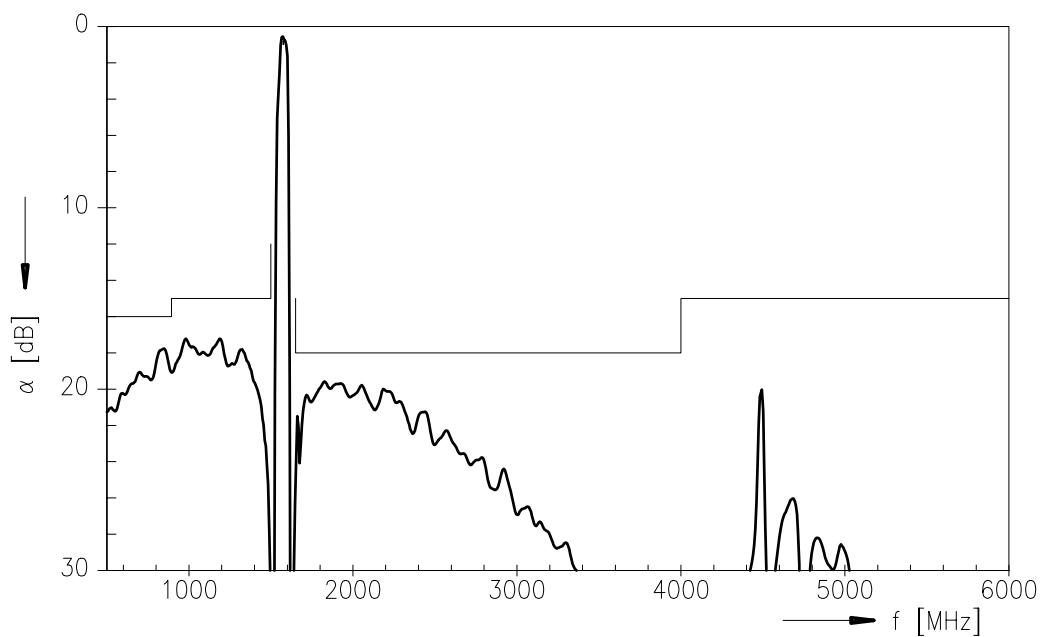
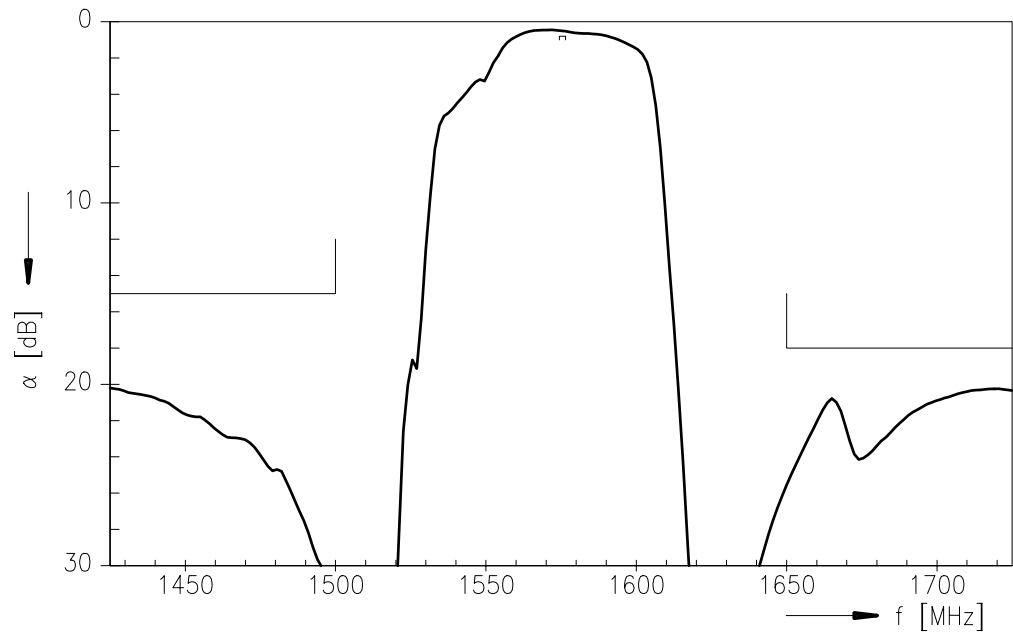
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Transfer function





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

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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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