EPCOS

SAW Components

Data Sheet B9000



Data Sheet SMD

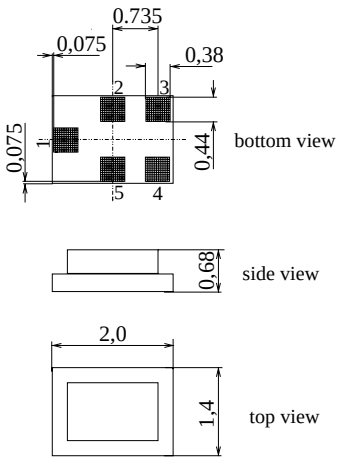
Chip sized SAW package

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

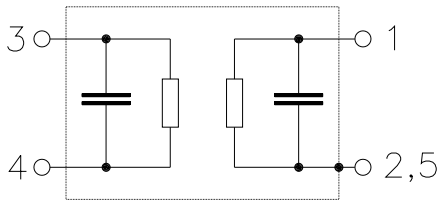
- Gold-plated Ni



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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operating temperature range	T	– 40/+ 85	˚C	
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	824...956, 1710...2170 MHz
		10,0		elsewhere

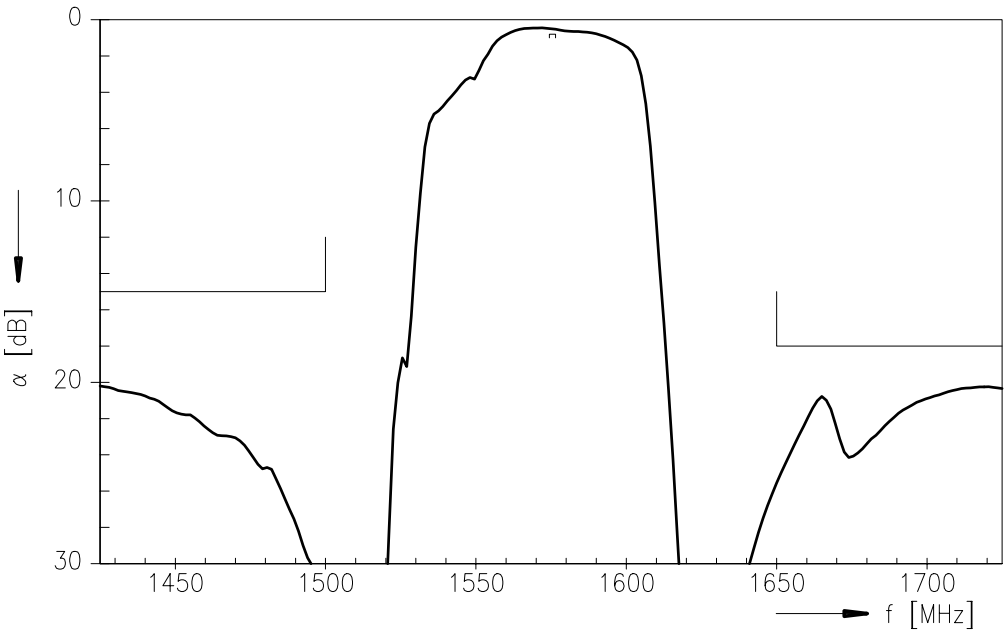
Characteristics

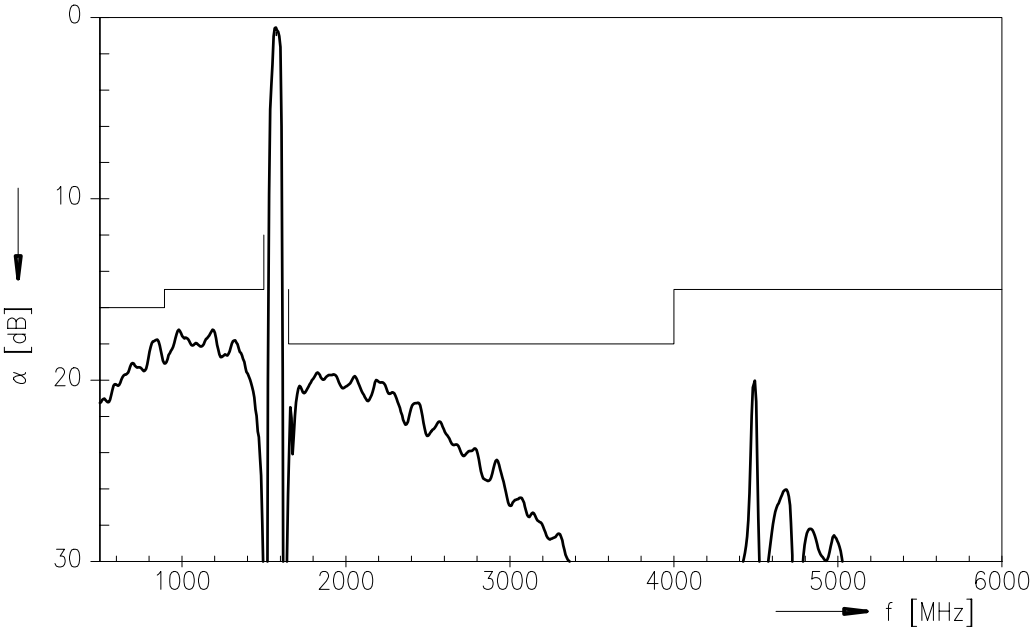
Operating Temperature Range: T = -40˚C to 85˚C
Terminating source impedance: Z_S = 50Ω
Terminating load impedance: Z_L = 50Ω

		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 ... +70 ˚C

Transfer function





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This brochure replaces the previous edition.

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