

Data Sheet B9000





B9000

Low-Loss Filter for Mobile Communication

1575,42 MHz

Data Sheet



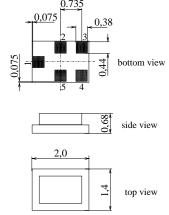
Chip sized SAW package

Features

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

Terminals

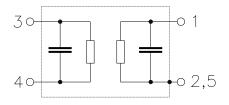
■ Gold-plated Ni



Dimensions in mm, approx. weight 0,007 g

Pin configuration

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



Туре	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	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	3	V	
Input Power max. (source im-		25,0	dBm	824956, 17102170 MHz
pedance 50 Ω)	P_{IN}	10,0	UDIII	elsewhere



B9000

Low-Loss Filter for Mobile Communication

1575,42 MHz

Data Sheet

Characteristics

Operating Temperature Range: $T = -40^{\circ} \text{C to } 85^{\circ} \text{C}$

Terminating source impedance: $Z_{\rm S} = 50\Omega$ Terminating load impedance: $Z_{\rm L} = 50\Omega$

	min.	typ.	max.	
Center frequency f _C	_	1575,42	_	MHz
$\textbf{Maximum insertion attenuation} \qquad \qquad \alpha_{\text{max}}$				
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				
500,0MHz894,0 MHz	16	18	_	dB
894,0MHz1500,0 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	

^{*)} $T_A = -30 ... +70 \,^{\circ}C$



SAW Components

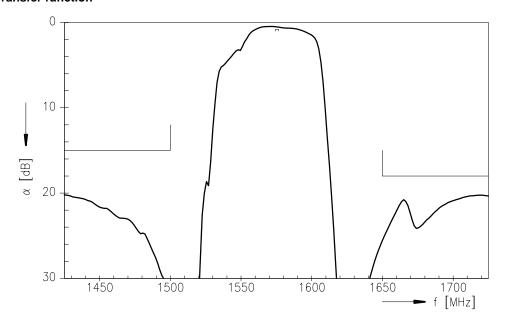
Low-Loss Filter for Mobile Communication

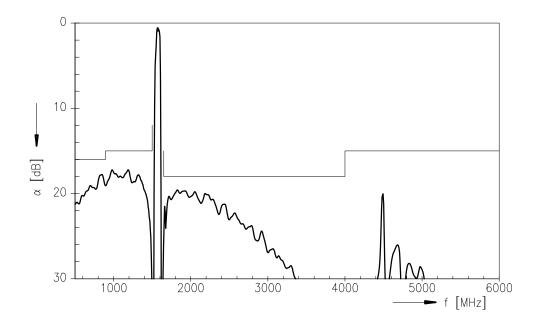
Data Sheet

B9000

1575,42 MHz

Transfer function







B9000

Low-Loss Filter for Mobile Communication

1575,42 MHz

Data Sheet



Published by EPCOS AG SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY TEL ++49 89 636 09, FAX ++49 89 636 2 26 89

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

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.