



# SAW Components

Data Sheet B4182





SAW Components

B4182

Low-Loss Filter for Mobile Communication

1882,5 MHz

Data Sheet



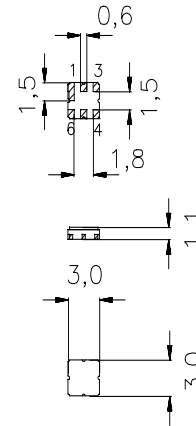
Ceramic package **DCC6C**

**Features**

- Low-loss RF filter for Multicarrier Basestation (CDMA) , receive path
- Usable passband: 65 MHz
- No matching network required for operation at 50Ω
- Ceramic package for **Surface Mounted Technology (SMT)**
- Hermetically sealed ceramic package
- RoHS compliant

**Terminals**

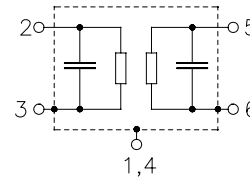
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

**Pin configuration**

- 2 Input
- 5 Output
- 1, 3, 4, 6 To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4182	B39182-B4182-U410	C61157-A7-A67	F61074-V8168-Z000

**Electrostatic Sensitive Device (ESD)**

**Maximum ratings**

Operable temperature range	$T$	- 40 / + 85	°C	Machine Model, 10 pulses source and load impedance 50 Ω continuous wave, 85 °C continuous wave, 55 °C
Storage temperature range	$T_{stg}$	- 40 / + 85	°C	
ESD voltage	$V_{ESD}^*$	50*	V	
Input power max.				
1930,0 ... 1990,0 MHz	$P_{IN}$	12	dBm	
	$P_{IN}$	15	dBm	

\* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



SAW Components

B4182

Low-Loss Filter for Mobile Communication

1882,5 MHz

Data Sheet



**Characteristics**

Operating temperature range:  $T = +25 \pm 2 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$

			min.	typ.	max.	
<b>Center frequency</b>	$f_c$			1882,5		MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$	1850,0 ... 1915,0 MHz	—	2,5	3,2	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	1850,0 ... 1915,0 MHz	—	0,8	1,4	dB
<b>Return loss</b>		1850,0 ... 1915,0 MHz	9,0	10,0	—	dB
<b>Attenuation</b>	$\alpha_{\text{abs}}$	800,0 ... 1400,0 MHz	24,0	28,0	—	dB
		1400,0 ... 1745,0 MHz	25,0	28,0	—	dB
		1930,0 ... 1940,0 MHz	5,0	10,0	—	dB
		1940,0 ... 3000,0 MHz	20,0	23,0	—	dB



SAW Components

B4182

Low-Loss Filter for Mobile Communication

1882,5 MHz

Data Sheet



### Characteristics

Operating temperature range:  $T = 0$  to  $+85^{\circ}\text{C}$

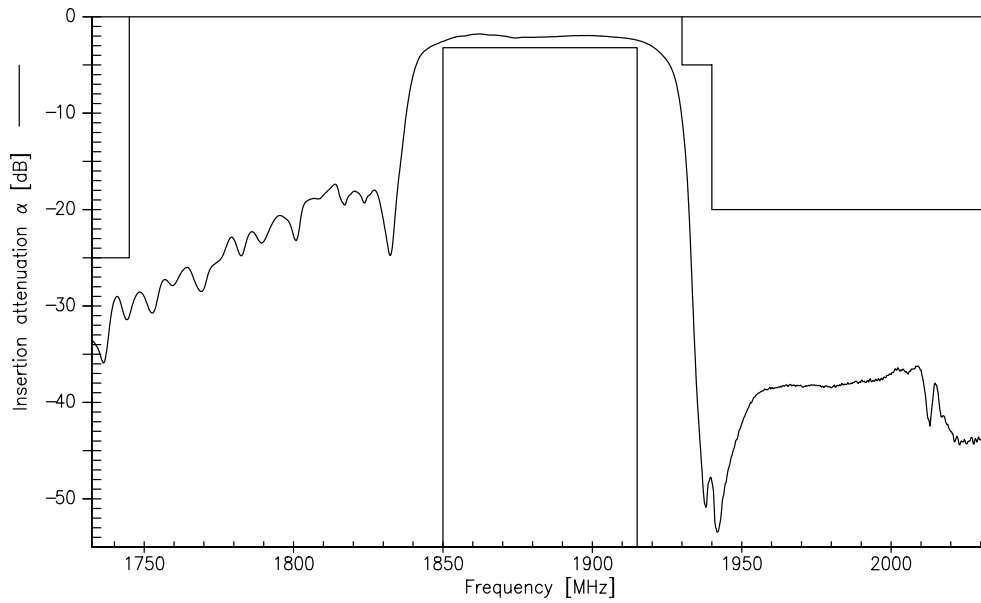
Terminating source impedance:  $Z_S = 50\ \Omega$

Terminating load impedance:  $Z_L = 50\ \Omega$

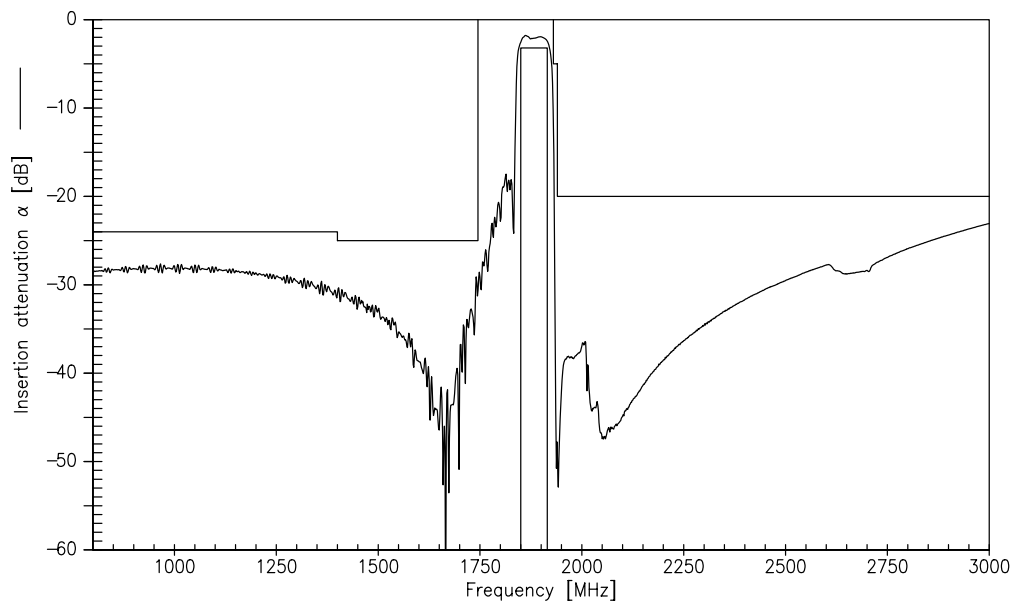
			min.	typ.	max.	
<b>Center frequency</b>	$f_c$			1882,5		MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$		—	2,9	3,5	dB
1850,0 ... 1915,0	MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$		—	1,1	1,7	dB
1850,0 ... 1915,0	MHz					
<b>Return loss</b>			9,0	10,0	—	dB
1850,0 ... 1915,0	MHz					
<b>Attenuation</b>	$\alpha_{\text{abs}}$					dB
800,0 ... 1400,0	MHz		24,0	28,0	—	
1400,0 ... 1746,0	MHz		25,0	28,0	—	
1930,0 ... 1940,0	MHz		5,0	7,0	—	
1940,0 ... 3000,0	MHz		20,0	23,0	—	



Transfer function (Narrowband measurement)



Transfer function (Wideband measurement)





**SAW Components**

**B4182**

**Low-Loss Filter for Mobile Communication**

**1882,5 MHz**

Data Sheet



**Published by EPCOS AG**  
**Surface Acoustic Wave Components Division, SAW MC PD**  
**P.O. Box 80 17 09, 81617 Munich, GERMANY**

© EPCOS AG 2006. 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.