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# SAW Components

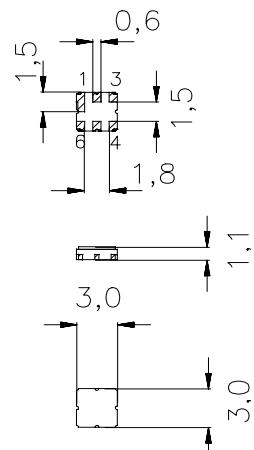
Data Sheet B4168

Data Sheet

EP

**SAW Components****B4168****Low-Loss Filter for Mobile Communication****1960,0 MHz****Data Sheet**Ceramic package **DCC6C****Features**

- Low-loss RF filter for mobile telephone PCS systems, receive path
- Usable passband 60 MHz
- No matching network required for operation at 50 Ω
- Suitable for GPRS class 1 to 12
- Ceramic Package for **Surface Mounted Technology (SMT)**

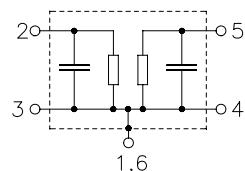
**Terminals**

- Ni, gold-plated

Dimensions in mm, approx. weight 0,037 g

**Pin configuration**

- |      |                 |
|------|-----------------|
| 2    | Input           |
| 1, 3 | Input - ground  |
| 5    | Output          |
| 4, 6 | Output - ground |



Type	Ordering code	Marking and Package according to	Packing according to
B4168	B39202-B4168-U410	C61157-A7-A67	F61074-V8088-Z000

**Electrostatic Sensitive Device (ESD)****Maximum ratings**

Operable temperature range	$T$	– 30/+ 75	°C	
Storage temperature range	$T_{stg}$	– 40/+ 85	°C	
DC voltage	$V_{DC}$	3	V	
Input power at GSM850, GSM900 GSM1800, GSM1900 Tx bands	$P_{IN}$	15	dBm	peak power of GSM signal, duty cycle 4:8
	$P_{IN}$	12	dBm	

**SAW Components****B4168****Low-Loss Filter for Mobile Communication****1960,0 MHz****Data Sheet****Characteristics**Operating temperature range:  $T = +25 \pm 2^\circ\text{C}$ Terminating source impedance:  $Z_S = 50 \Omega$ Terminating load impedance:  $Z_L = 50 \Omega$ 

			min.	typ.	max.	
<b>Center frequency</b>		$f_c$	—	1960,0	—	MHz
<b>Maximum insertion attenuation</b>		$\alpha_{\max}$				
1930,0 ... 1990,0	MHz		—	2,7	3,5	dB
<b>Amplitude ripple (p-p)</b>		$\Delta\alpha$				
1930,0 ... 1990,0	MHz		—	1,4	2,2	dB
<b>Input VSWR</b>						
1930,0 ... 1990,0	MHz		—	1,9	2,1	
<b>Output VSWR</b>						
1930,0 ... 1990,0	MHz		—	1,9	2,1	
<b>Attenuation</b>		$\alpha$				
10,0 ... 1850,0	MHz		23,0	25,0	—	dB
1850,0 ... 1910,0	MHz		10,5	14,0	—	dB
2010,0 ... 2070,0	MHz		10,5	15,0	—	dB
2070,0 ... 2410,0	MHz		25,0	29,0	—	dB
2410,0 ... 2910,0	MHz		33,0	37,0	—	dB
2910,0 ... 4500,0	MHz		25,0	29,0	—	dB
4500,0 ... 5000,0	MHz		20,0	26,0	—	dB
5000,0 ... 6000,0	MHz		8,0	10,0	—	dB

**SAW Components****B4168****Low-Loss Filter for Mobile Communication****1960,0 MHz****Data Sheet****Characteristics**Operating temperature range:  $T = -10$  to  $+75^\circ\text{C}$ Terminating source impedance:  $Z_S = 50 \Omega$ Terminating load impedance:  $Z_L = 50 \Omega$ 

			min.	typ.	max.	
<b>Center frequency</b>		$f_c$	—	1960,0	—	MHz
<b>Maximum insertion attenuation</b>		$\alpha_{\max}$				
1930,0 ... 1990,0	MHz		—	2,7	4,3	dB
<b>Amplitude ripple (p-p)</b>		$\Delta\alpha$				
1930,0 ... 1990,0	MHz		—	1,4	3,0	dB
<b>Input VSWR</b>						
1930,0 ... 1990,0	MHz		—	1,9	2,1	
<b>Output VSWR</b>						
1930,0 ... 1990,0	MHz		—	1,9	2,1	
<b>Attenuation</b>		$\alpha$				
10,0 ... 1850,0	MHz		23,0	25,0	—	dB
1850,0 ... 1910,0	MHz		8,5	14,0	—	dB
2010,0 ... 2070,0	MHz		8,5	15,0	—	dB
2070,0 ... 2410,0	MHz		25,0	29,0	—	dB
2410,0 ... 2910,0	MHz		33,0	37,0	—	dB
2910,0 ... 4500,0	MHz		25,0	29,0	—	dB
4500,0 ... 5000,0	MHz		20,0	26,0	—	dB
5000,0 ... 6000,0	MHz		8,0	10,0	—	dB



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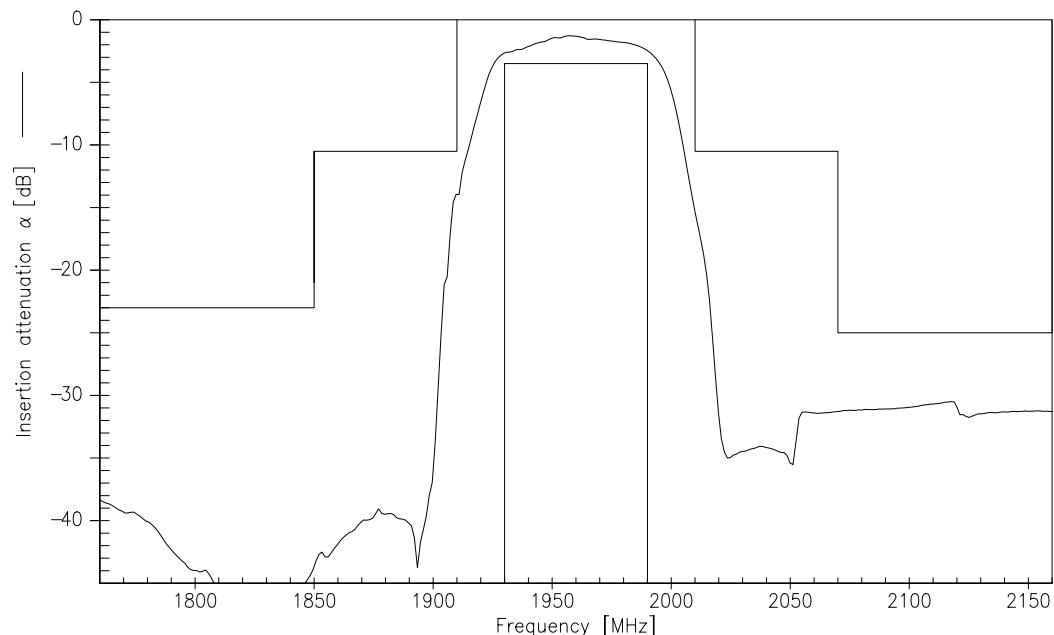
Low-Loss Filter for Mobile Communication

1960,0 MHz

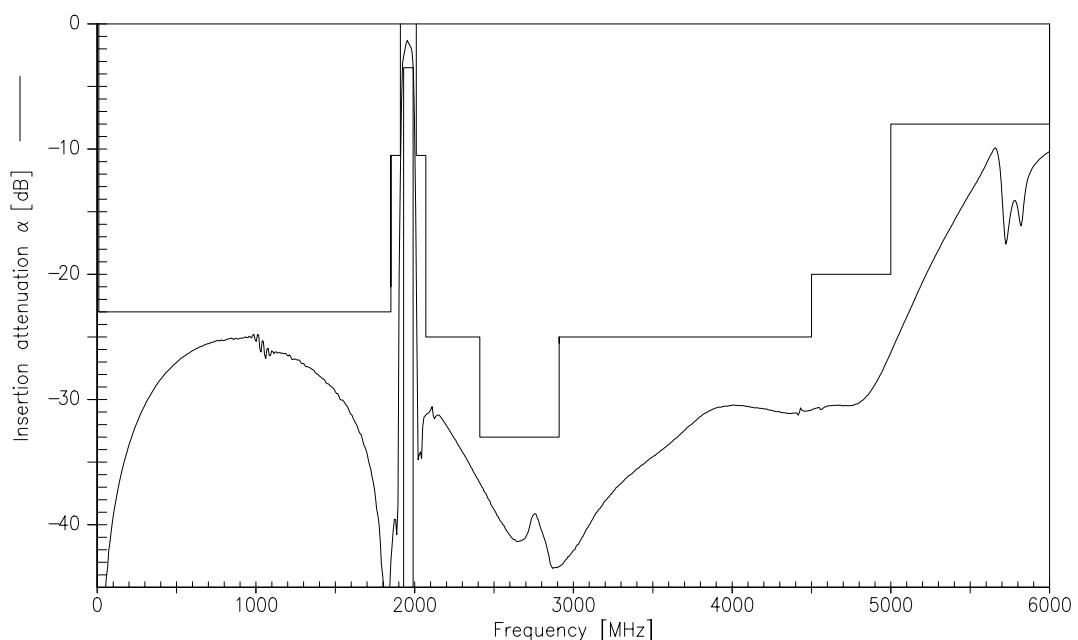
Data Sheet



Transfer function(Spec for 25°C):



Transfer function(wideband):





**SAW Components**

**B4168**

**Low-Loss Filter for Mobile Communication**

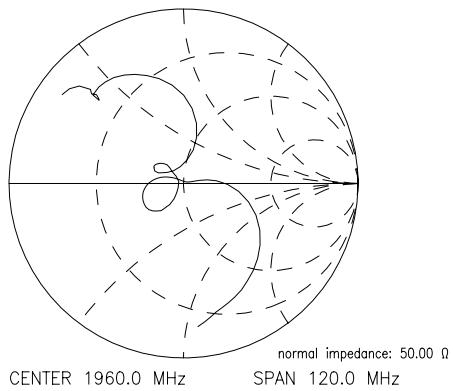
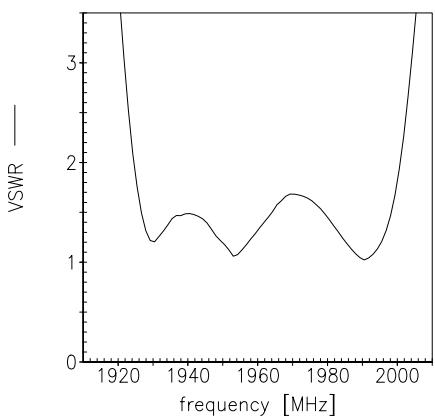
**1960,0 MHz**

**Data Sheet**

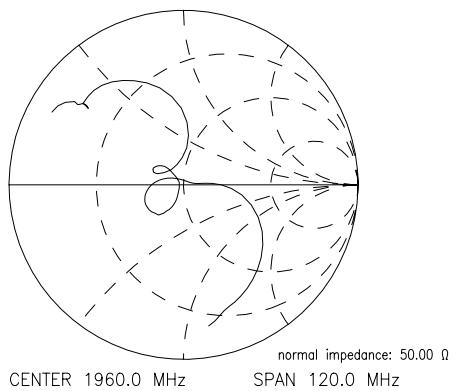
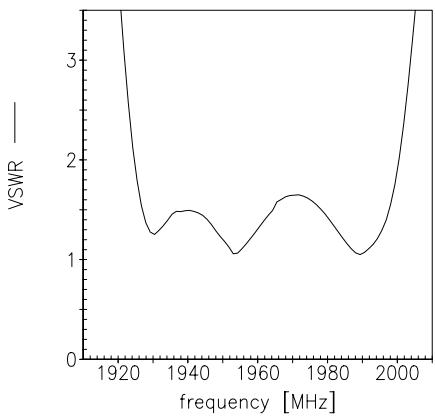


**Reflection functions:**

$S_{11}$



$S_{22}$





<b>SAW Components</b>	<b>B4168</b>
<b>Low-Loss Filter for Mobile Communication</b>	<b>1960,0 MHz</b>
<b>Data Sheet</b>	The logo for Surface Mount Device (SMD), consisting of the letters "SMD" in a stylized, blocky font.

ublished by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC WT  
P.O. Box 80 17 09, 81617 Munich, GERMANY

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