

**SAW Components**  
**Low Loss Filter for Mobile Communication**

**B4207**  
**1865,00 MHz**  
**1895,00 MHz**

**Data Sheet**

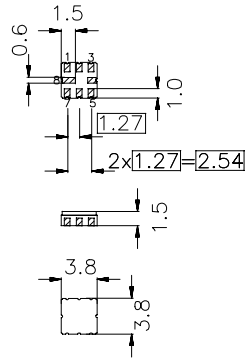
Ceramic package **QCC8B**

**Features**

- Low-loss '2in1' RF filter for mobile telephone PCS system , transmit path
- Device with two integrated Tx-filter
- Usable passband of Tx-filter 1 30 MHz
- Usable passband of Tx-filter 2 30 MHz
- No matching network required for operation at 50 Ω
- Package for **Surface Mounted Technology (SMT)**

**Terminals**

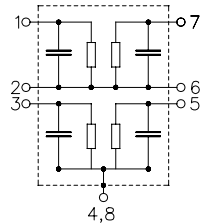
- Ni, gold-plated



Dimensions in mm, approx. weight 0,07 g

**Pin configuration**

- |     |                    |
|-----|--------------------|
| 1   | Input Tx-filter 1  |
| 7   | Output Tx-filter 1 |
| 2,6 | Ground Tx-filter 1 |
| 3   | Input Tx-filter 2  |
| 5   | Output Tx-filter 2 |
| 4,8 | Case - ground      |



Type	Ordering code	Marking and Package according to	Packing according to
B4207	B39192-B4207-Z810	C61157-A7-A41	F61064-V8030-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T$	- 30 / + 80	°C	
Storage temperature range	$T_{stg}$	- 40 / + 85	°C	
DC voltage	$V_{DC}$	0	V	
Source power	$P_s$	5	dBm	source impedance 50 Ω

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**Characteristics of Tx-filter 1**

Operating temperature range:  $T = -30$  to  $+80^{\circ}\text{C}$   
Terminating source impedance:  $Z_S = 50\ \Omega$   
Terminating load impedance:  $Z_L = 50\ \Omega$

				<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Center frequency</b>	$f_c$			—	1865,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$	1850,0 ... 1880,0 MHz		—	2,5	3,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	1850,0 ... 1880,0 MHz		—	1,2	1,7	dB
<b>Attenuation</b>	$\alpha$	10,0 ... 1500,0 MHz		25,0	27,0	—	dB
		1500,0 ... 1750,0 MHz		15,0	31,0	—	dB
		1930,0 ... 1960,0 MHz		32,0	40,0	—	dB
		2200,0 ... 2400,0 MHz		20,0	30,0	—	dB
		2700,0 ... 3000,0 MHz		10,0	13,0	—	dB

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**Characteristics of Tx-filter 2**

Operating temperature range:  $T = -30$  to  $+80^{\circ}\text{C}$   
Terminating source impedance:  $Z_S = 50\ \Omega$   
Terminating load impedance:  $Z_L = 50\ \Omega$

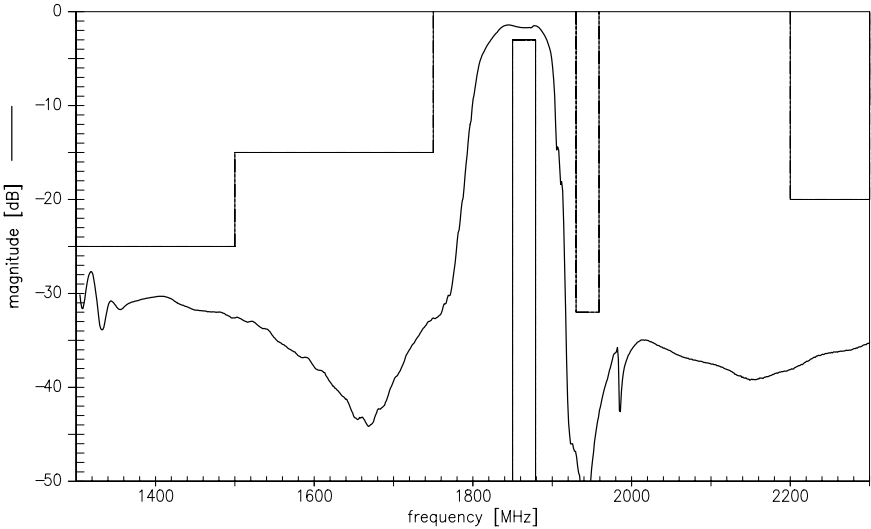
		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Center frequency</b>	$f_c$	—	1895,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
1880,0 ... 1910,0	MHz	—	2,5	3,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
1880,0 ... 1910,0	MHz	—	1,2	1,7	dB
<b>Attenuation</b>	$\alpha$				
10,0 ... 1500,0	MHz	25,0	28,0	—	dB
1500,0 ... 1750,0	MHz	15,0	21,0	—	dB
1960,0 ... 1990,0	MHz	32,0	34,0	—	dB
2200,0 ... 2400,0	MHz	20,0	27,5	—	dB
2700,0 ... 3000,0	MHz	10,0	15,0	—	dB

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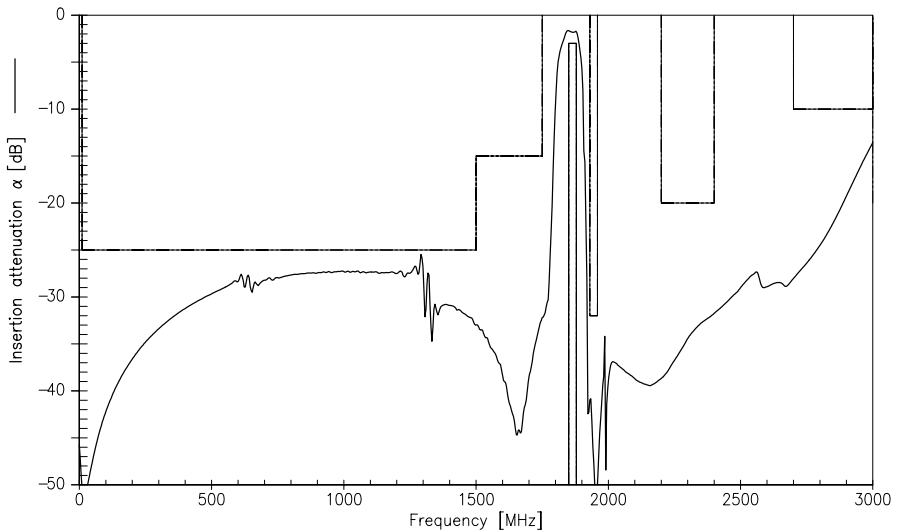
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**Transfer function Tx-Filter 1**



**Transfer function Tx-Filter 1 (wideband)**

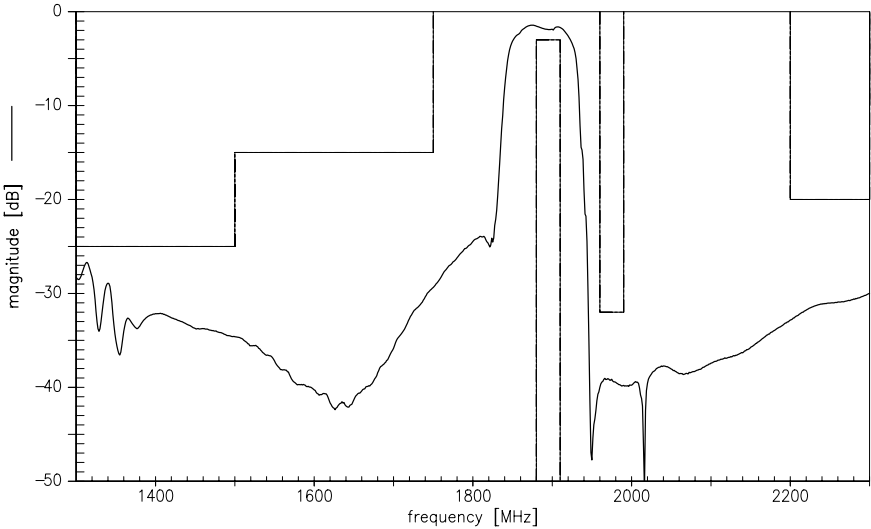


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**Data Sheet**

**Transfer function Tx-Filter 2**



**Transfer function Tx-Filter 2 (wideband)**

