

SAW Components
Low Loss Filter for Mobile Communication

B4207
1865,00 MHz
1895,00 MHz

Data Sheet

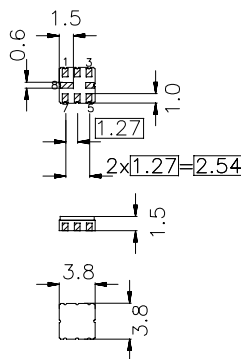
Ceramic package **QCC8B**

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

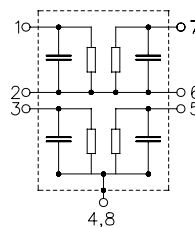
- Ni, gold-plated



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: $Z_L = 50\ \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1865,0	—	MHz
Maximum insertion attenuation	α_{\max}	1850,0 ... 1880,0 MHz	—	2,5	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$	1850,0 ... 1880,0 MHz	—	1,2	1,7	dB
Attenuation	α	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: $Z_L = 50\ \Omega$

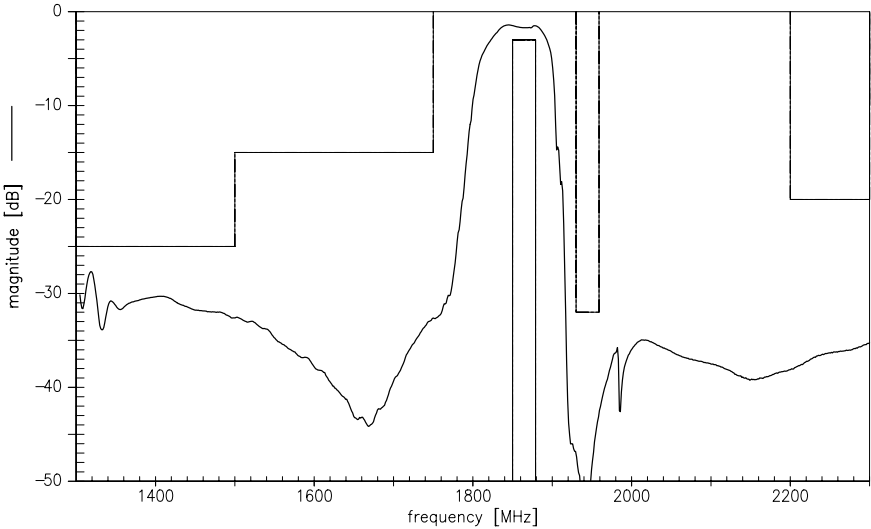
		min.	typ.	max.	
Center frequency	f_c	—	1895,0	—	MHz
Maximum insertion attenuation	α_{\max}	—	2,5	3,0	dB
1880,0 ... 1910,0	MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,2	1,7	dB
1880,0 ... 1910,0	MHz				
Attenuation	α				
10,0 ... 1500,0	MHz	25,0	28,0	—	dB
1500,0 ... 1750,0	MHz	15,0	21,0	—	dB
1960,0 ... 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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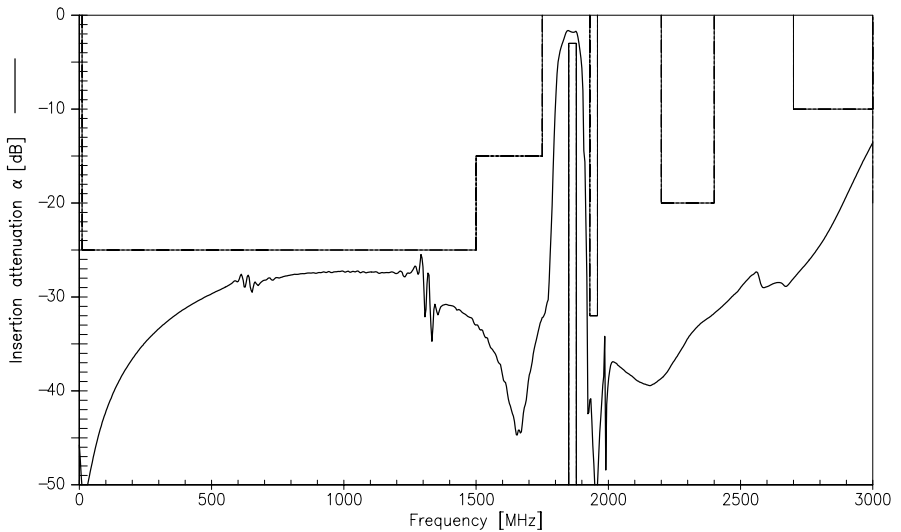
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Transfer function Tx-Filter 1



Transfer function Tx-Filter 1 (wideband)

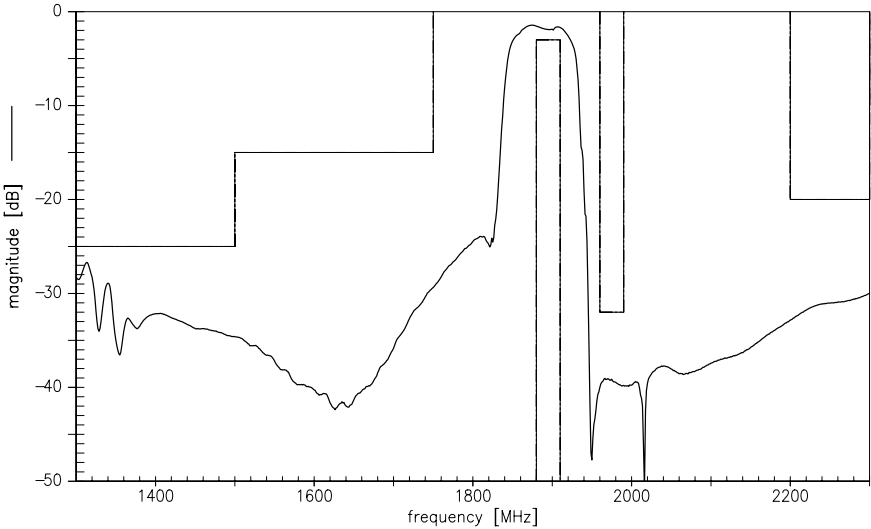


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Data Sheet

Transfer function Tx-Filter 2



Transfer function Tx-Filter 2 (wideband)

