

SAW Components

Low Loss Filter for Mobile Communication

B4207

1865,00 MHz

1895,00 MHz

Data Sheet

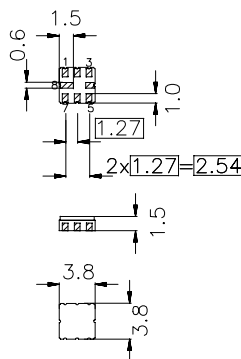
Ceramic package **QCC8B**

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

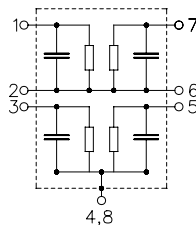
- Ni, gold-plated



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	$^{\circ}\text{C}$	source impedance 50 Ω
Storage temperature range	T_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_s	13	dBm	

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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	$\alpha_{\max}$					
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 ...1700,0 MHz			20,0	31,0	—	dB
1700,0 ...1760,0 MHz			15,0	31,0	—	dB
1930,0 ...1960,0 MHz			32,0	38,0	—	dB
2040,0 ...2100,0 MHz			30,0	35,0	—	dB
2200,0 ...2500,0 MHz			20,0	30,0	—	dB
2700,0 ...3000,0 MHz			7,0	10,0	—	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	$\alpha_{\max}$					
1880,0 ...1910,0	MHz		—	2,5	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
1880,0 ...1910,0	MHz		—	1,2	1,7	dB
Attenuation	α					
10,0 ...1500,0	MHz		25,0	28,0	—	dB
1500,0 ...1700,0	MHz		20,0	31,0	—	dB
1700,0 ...1760,0	MHz		15,0	21,0	—	dB
1960,0 ...1990,0	MHz		32,0	34,0	—	dB
2040,0 ...2100,0	MHz		30,0	35,0	—	dB
2200,0 ...2500,0	MHz		20,0	27,5	—	dB
2700,0 ...3000,0	MHz		10,0	15,0	—	dB

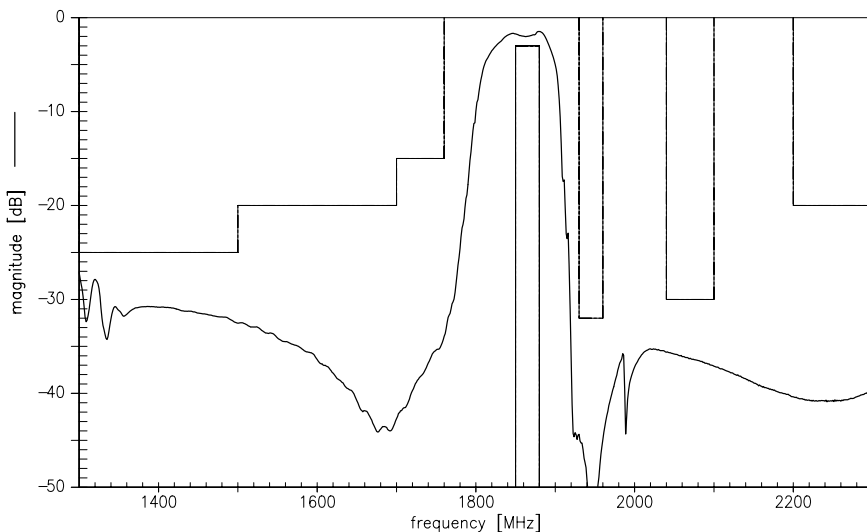
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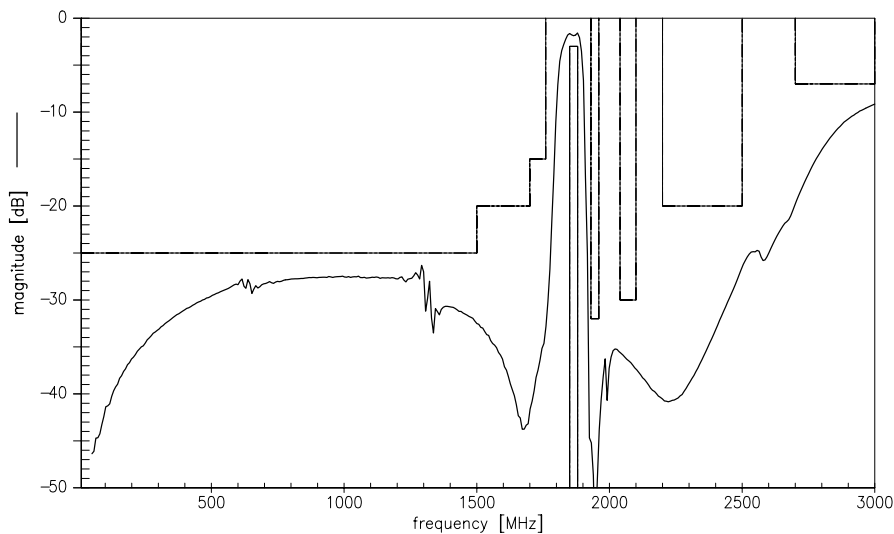
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Transfer function Tx-Filter 1



Transfer function Tx-Filter 1 (wideband)



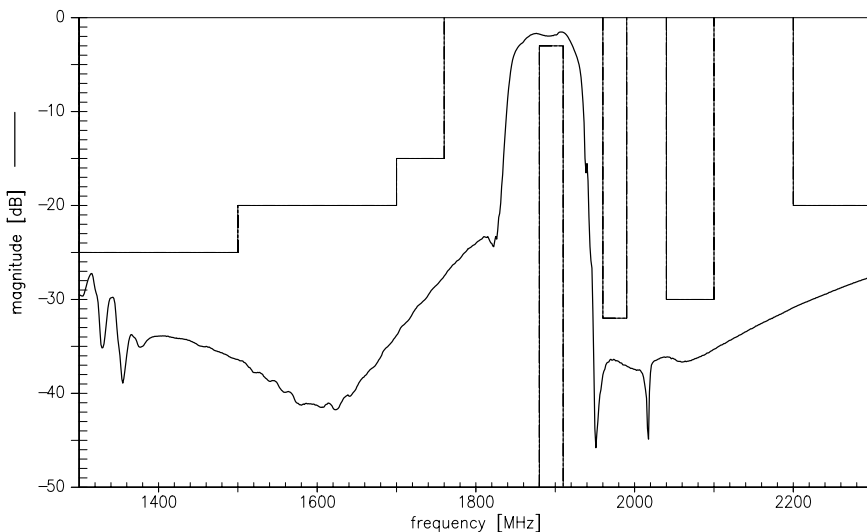
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Data Sheet

Transfer function Tx-Filter 2



Transfer function Tx-Filter 2 (wideband)

