



# SAW Components

Data Sheet B1610





**SAW Components**

**B1610**

**Low-Loss Filter**

**1220,00 MHz**

Data Sheet



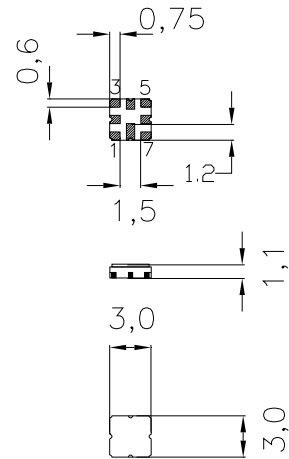
SMD ceramic package **QCC8D**

**Features**

- Low loss RF filter for dual conversion
- Usable passband 8 MHz
- No matching network required for operation at 200 Ω
- Balanced to balanced operation
- Low group delay ripple
- Package for **Surface Mounted Technology (SMT)**

**Terminals**

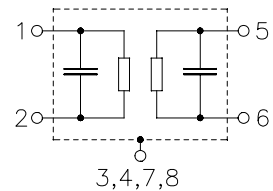
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

**Pin configuration**

- |     |                |
|-----|----------------|
| 1   | Input          |
| 2   | Input          |
| 5   | Output         |
| 6   | Output         |
| 3,7 | To be grounded |
| 4,8 | Case – ground  |



Type	Ordering code	Marking and Package according to	Packing according to
B1610	B39122–B1610–U810	C61157-A7-A72	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T$	-40/+85	°C	
Storage temperature range	$T_{stg}$	-40/+85	°C	
DC voltage	$V_{DC}$	0	V	
Source power	$P_S$	0	dBm	source and load impedance 200 Ω



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**Characteristics**

Operating temperature range:  $T = -40\text{ °C} \dots +85\text{ °C}$   
 Terminating source impedance:  $Z_S = 200\ \Omega$   
 Terminating load impedance:  $Z_L = 200\ \Omega$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Nominal frequency</b>	$f_N$	—	1220,00	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
1216,00 ... 1224,00 MHz		—	3,6	4,2	dB
<b>Amplitude ripple in passband (p-p)</b>	$\Delta\alpha$				
1216,00 ... 1224,00 MHz		—	0,6	1,2	dB
<b>Attenuation</b>	$\alpha$				
500,00 ... $f_N-91,00$ MHz		58,0	62,0	—	dB
$f_N-91,00$ ... $f_N-85,00$ MHz		58,0	62,0	—	dB
$f_N-76,00$ ... $f_N-68,00$ MHz		56,0	60,0	—	dB
$f_N-88,00$ MHz		58,0	62,0	—	dB
$f_N-72,00$ MHz		56,0	60,0	—	dB
$f_N-44,00$ MHz		46,0	54,0	—	dB
$f_N-36,00$ MHz		42,0	44,0	—	dB
$f_N+70,00$ ... 2000,00 MHz		56,0	62,0	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
1216,00 ... 1224,00 MHz		—	15	—	ns



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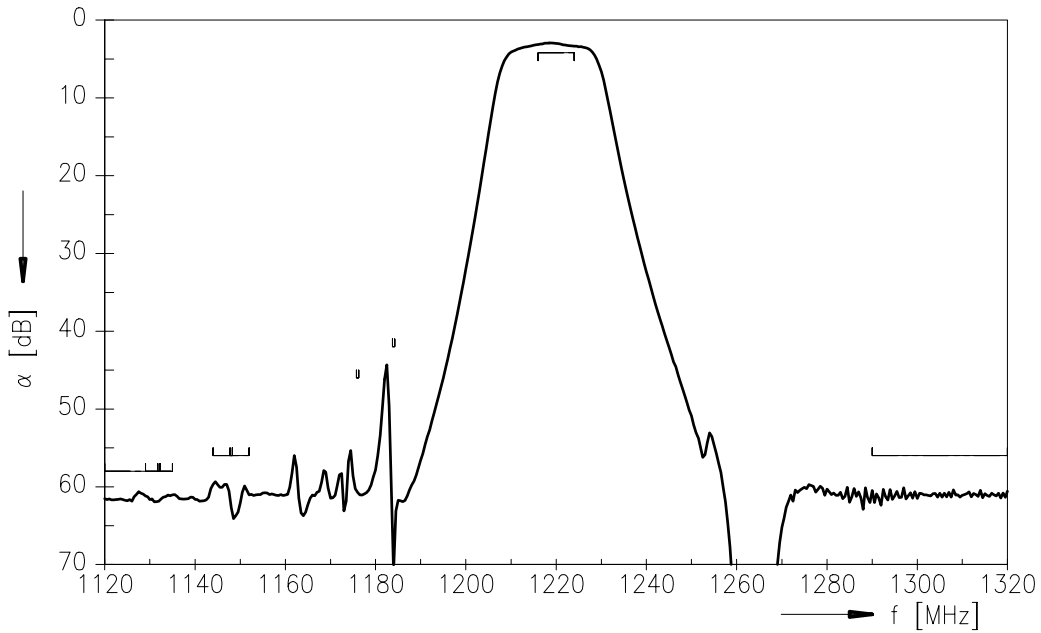
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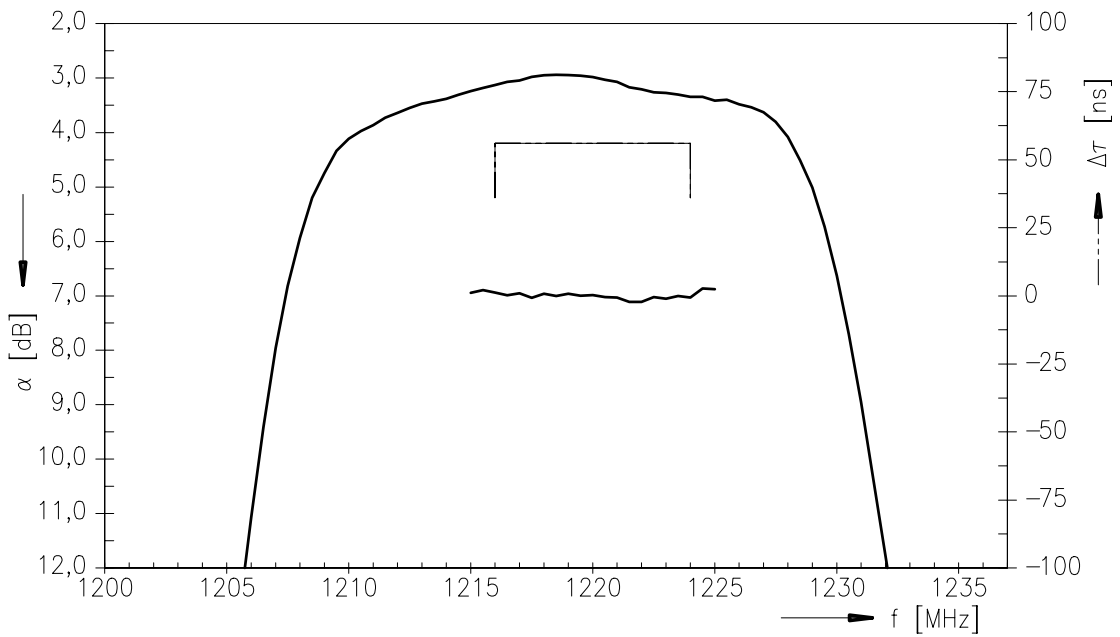
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Transfer function



Transfer function (passband)





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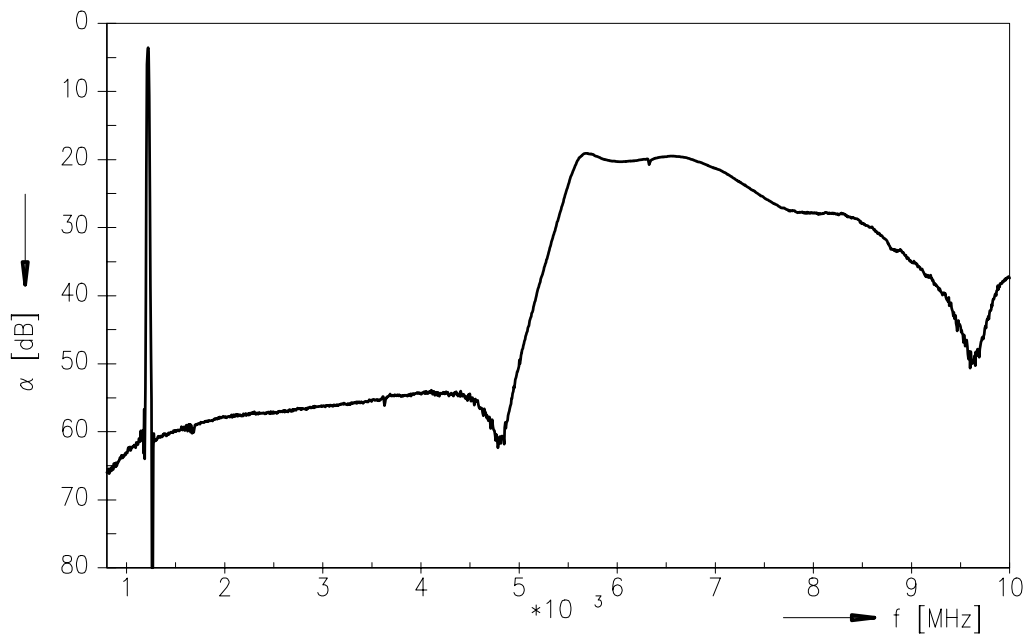
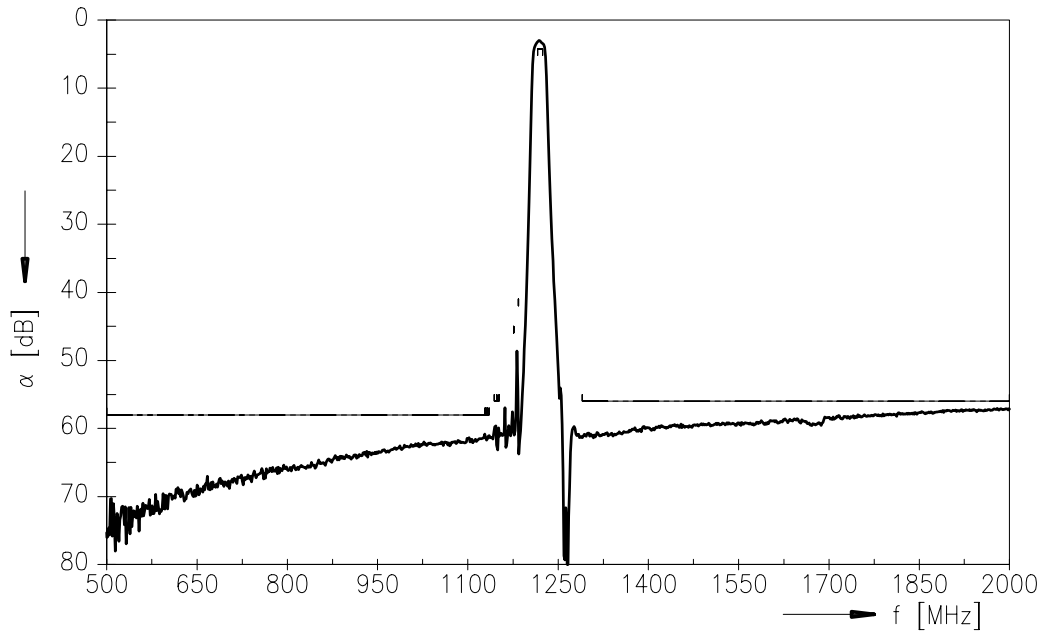
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Transfer function (wideband)





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