EPCOS

# *SAW Components*

*Data Sheet B1610*

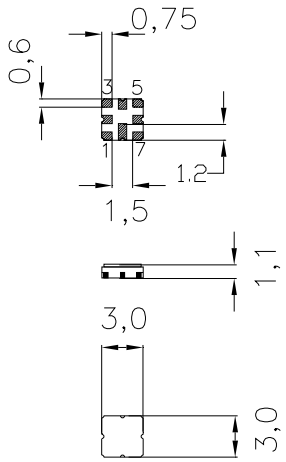
SMD ceramic package **QCC8D**

## 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 **S**urface **M**ounted **T**echnology **(SMT)**

## Terminals

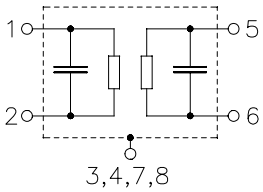
- Ni, gold-plated




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 |

**E**lectrostatic **S**ensitive **D**evice (**ESD**)

## Maximum ratings

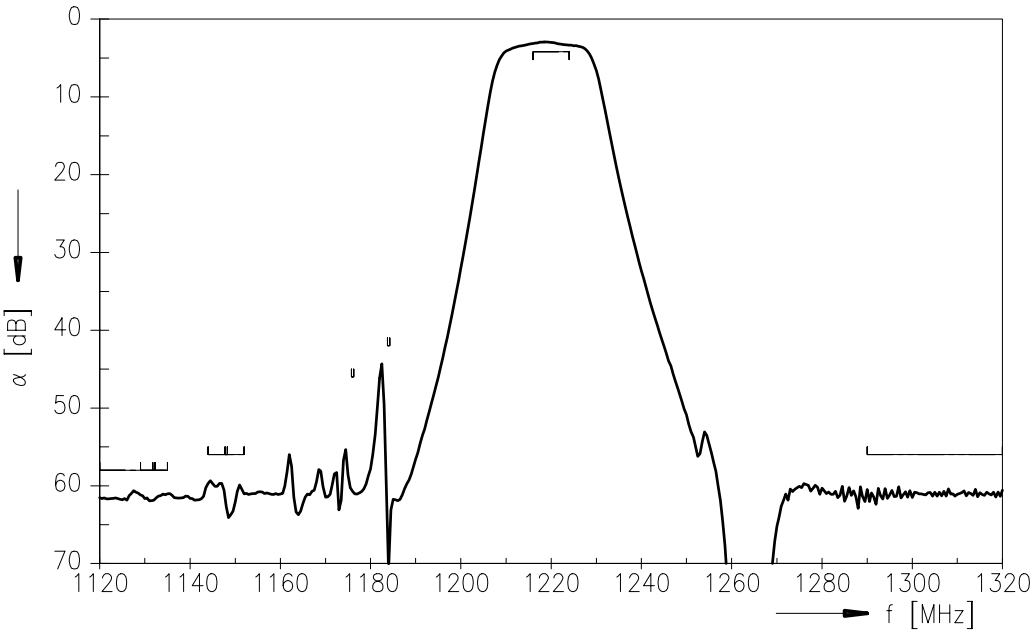
| | | | | |
|---|---|---|---|---|
| Operable temperature range | $T$ | –40/+85 | ˚C | |
| Storage temperature range | $T_{stg}$ | –40/+85 | ˚C | |
| DC voltage | $V_{DC}$ | 0 | V | |
| Source power | $P_S$ | 0 | dBm | source and load impedance 200 Ω |

## Characteristics

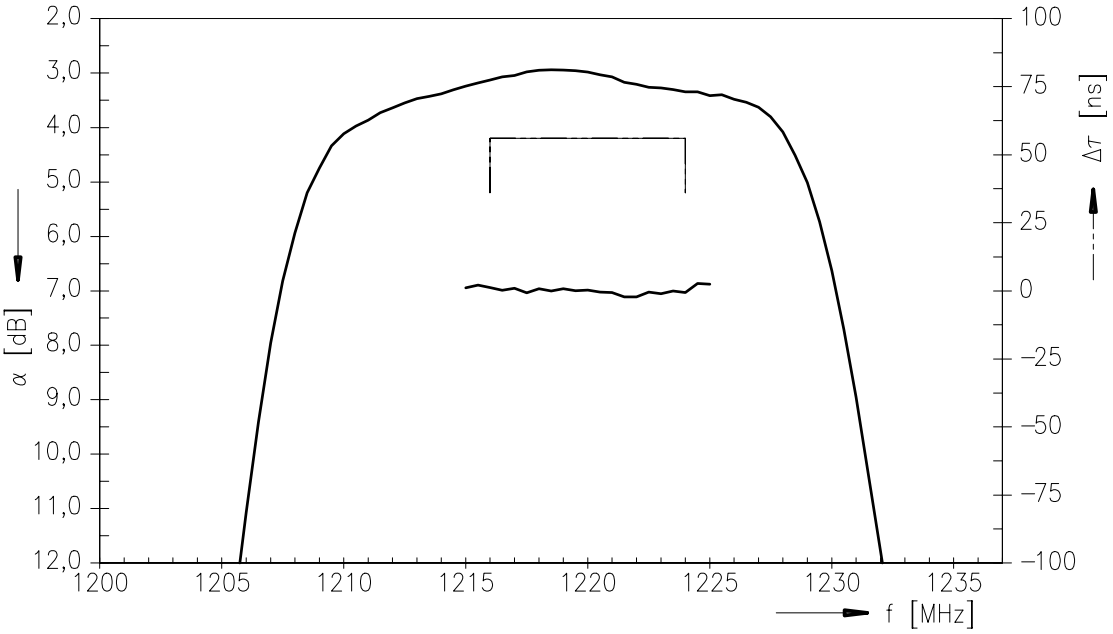
Operating temperature range: $T$ = –40 ˚C ... +85 ˚C
Terminating source impedance: $Z_S$ = 200 Ω
Terminating load impedance: $Z_L$ = 200 Ω

| | | min. | typ. | max. | |
|---|---|---|---|---|---|
| **Nominal frequency** | $f_N$ | — | 1220,00 | — | MHz |
| **Maximum insertion attenuation** | $\alpha_{max}$ | | | | |
| 1216,00 ... 1224,00 MHz | | — | 3,6 | 4,2 | dB |
| **Amplitude ripple in passband** (p-p) | $\Delta\alpha$ | | | | |
| 1216,00 ... 1224,00 MHz | | — | 0,6 | 1,2 | dB |
| **Attenuation** | $\alpha$ | | | | |
| 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 |
| **Group delay ripple** (p-p) | $\Delta\tau$ | | | | |
| 1216,00 ... 1224,00 MHz | | — | 15 | — | ns |

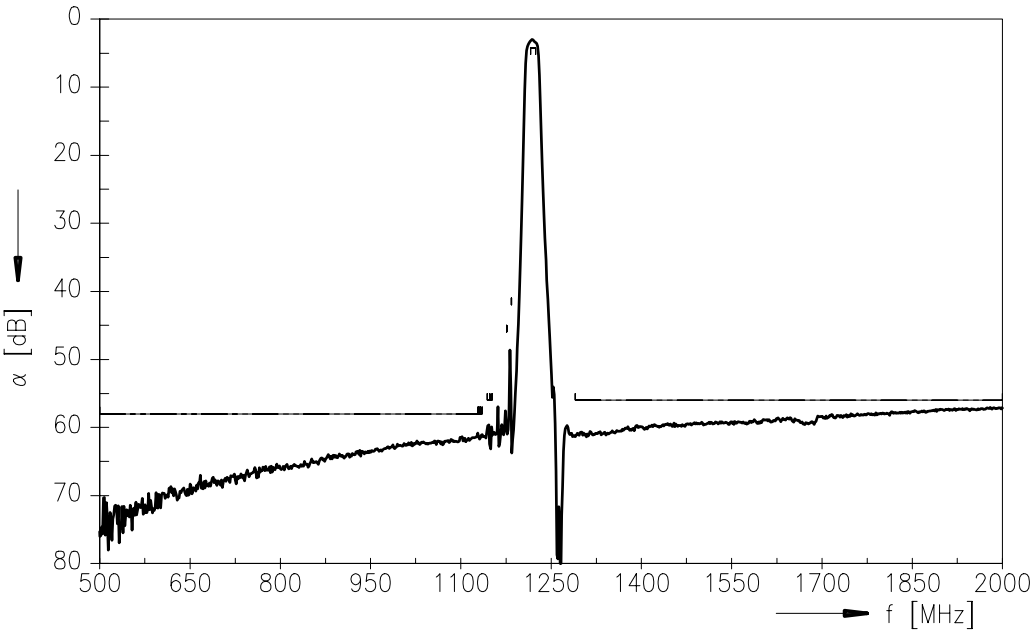
**Transfer function**

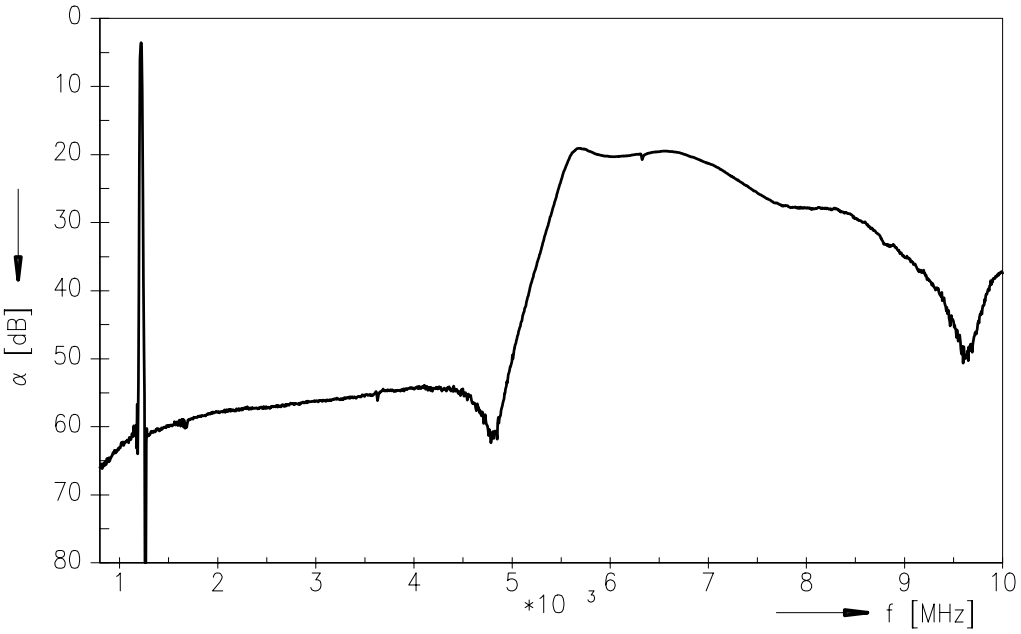



**Transfer function** (passband)



**Transfer function** (wideband)



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