



# SAW Components

Data Sheet B3712





**SAW Components**

**B3712**

**Low Loss Filter**

**312,20 MHz**

**Data Sheet**

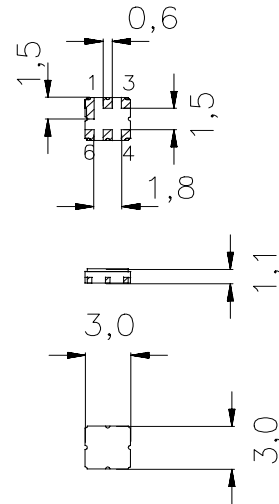
**Features**

- RF low-loss filter for remote control application
- Package for **Surface Mounted Technology (SMT)**
- Hermetically sealed ceramic package
- No matching network required for operation at 50 Ω
- Passivation layer: Elpas

**Terminals**

- Ni, gold-plated

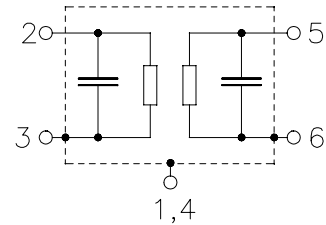
Ceramic package **DCC6C**



Dimensions in mm, approx. weight 0,037 g

**Pin configuration**

- 2                    Input
- 5                    Output
- 1, 3, 4, 6        Ground



| Type  | Ordering code     | Marking and Package according to | Packing according to |
|-------|-------------------|----------------------------------|----------------------|
| B3712 | B39311-B3712-U410 | C61157-A7-A67                    | F61074-V8168-Z000    |

Electrostatic **S**ensitive **D**evice (**ESD**)

**Maximum ratings**

|                            |           |         |     |                       |
|----------------------------|-----------|---------|-----|-----------------------|
| Operable temperature range | $T$       | -40/+85 | °C  |                       |
| Storage temperature range  | $T_{stg}$ | -45/+90 | °C  |                       |
| DC voltage                 | $V_{DC}$  | 0       | V   |                       |
| Source power               | $P_S$     | 10      | dBm | source impedance 50 Ω |



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**Characteristics**

Operating temperature range:  $T = -40 \dots 85^\circ\text{C}$

Terminating source impedance:  $Z_S = 50 \Omega$

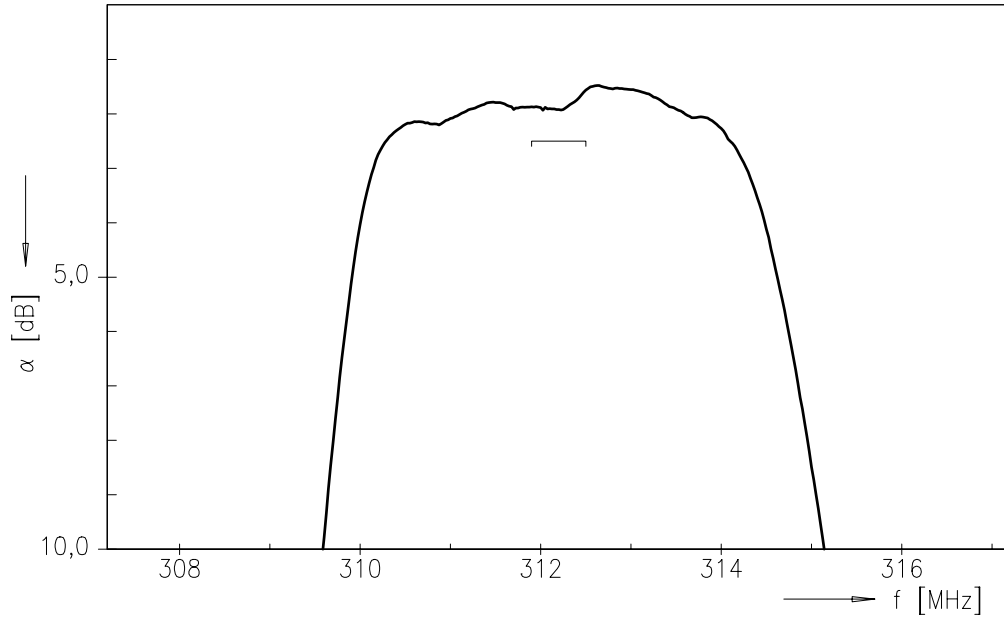
Terminating load impedance:  $Z_L = 50 \Omega$

|  |                       | <b>min.</b> | <b>typ.</b> | <b>max.</b> |       |
|--|-----------------------|-------------|-------------|-------------|-------|
| <b>Center frequency</b>  | $f_c$                 | —           | 312,20      | —           | MHz   |
| <b>Maximum insertion attenuation</b>                                 | $\alpha_{\max}$       |             |             |             |       |
|  | 311,90 ... 312,50 MHz | —           | 1,8         | 2,5         | dB    |
| <b>Amplitude ripple (p-p)</b>  | $\Delta\alpha$        |             |             |             |       |
|  | 311,90 ... 312,50 MHz | —           | 0,5         | 1,3         | dB    |
| <b>Relative attenuation (relative to <math>\alpha_{\max}</math>)</b> | $\alpha_{\text{rel}}$ |             |             |             |       |
|  | 270,00 ... 286,00 MHz | 55          | 60          | —           | dB    |
|  | 290,20 ... 291,10 MHz | 53          | 58          | —           | dB    |
|  | 301,20 ... 301,80 MHz | 48          | 53          | —           | dB    |
|  | 322,60 ... 323,20 MHz | 24          | 31          | —           | dB    |
|  | 333,30 ... 334,20 MHz | 36          | 41          | —           | dB    |
|  | 354,70 ... 355,90 MHz | 50          | 55          | —           | dB    |
| <b>Temperature coefficient of frequency</b>                          | $TC_f$                | —           | -30         | —           | ppm/K |

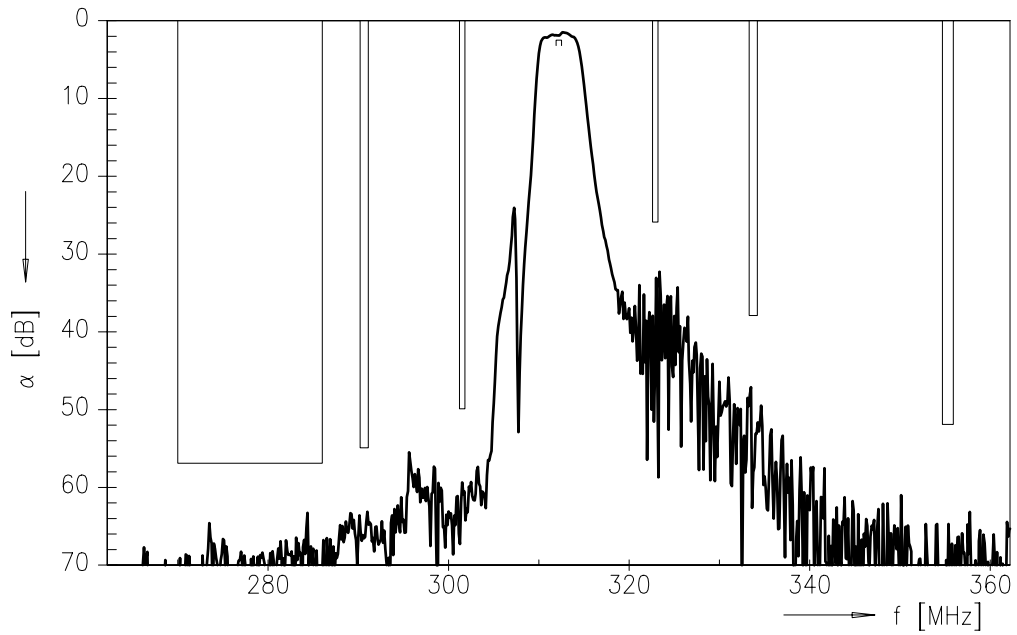


Data Sheet

Transfer function



Transfer function (wideband)





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