



# SAW Components

Data Sheet B3712





**SAW Components**

**B3712**

**Low Loss Filter**

**312,20 MHz**

**Data Sheet**

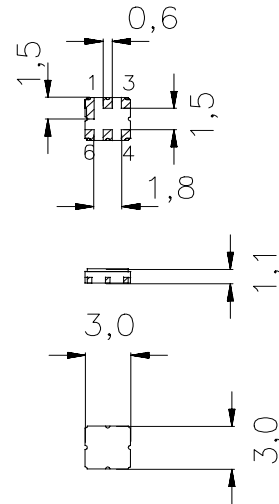
**Features**

- 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

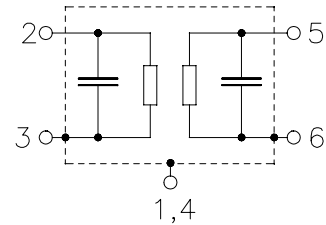
Ceramic package **DCC6C**



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 Sensitive Device (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**

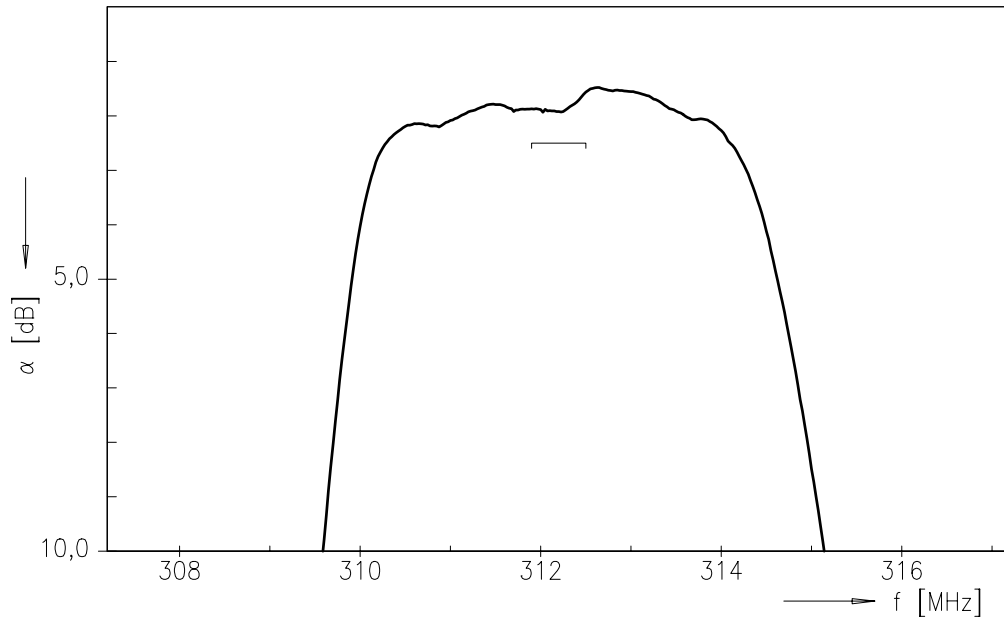
Operating temperature range:  $T = -40 \dots 85^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \Omega$   
 Terminating load impedance:  $Z_L = 50 \Omega$

		<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

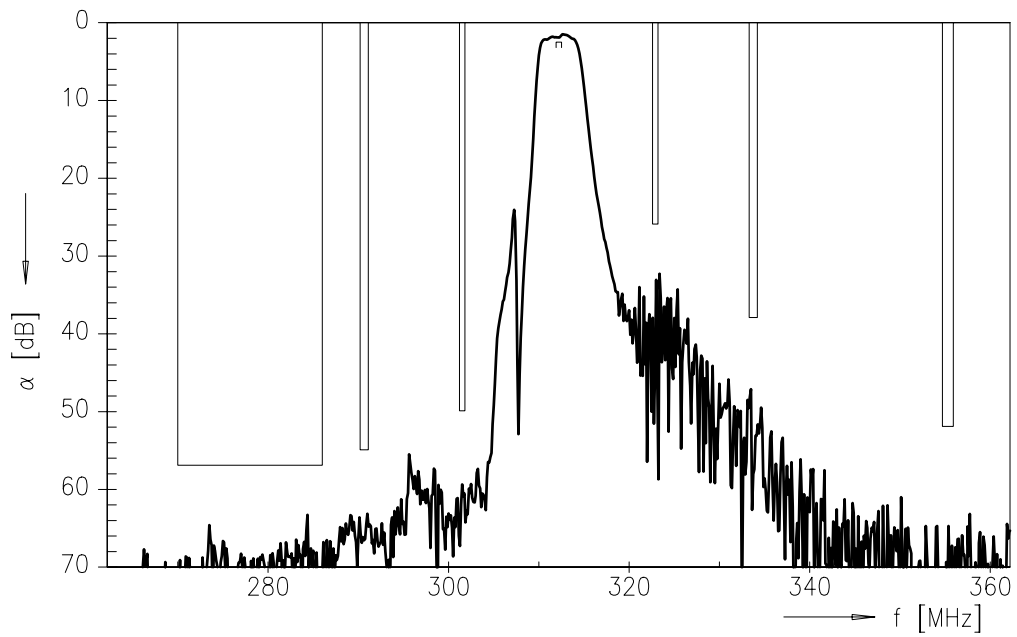


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Transfer function



Transfer function (wideband)





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