



# SAW Components

Data Sheet B1605





## SAW Components

**B1605**

## Low-Loss Filter for Digital Television

**1220,0 MHz**

### Data Sheet



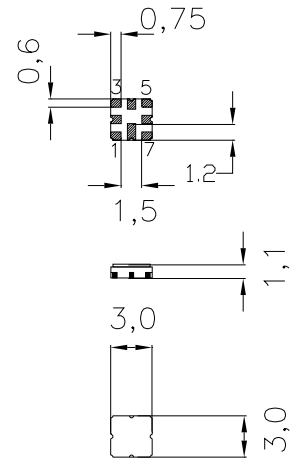
SMD package **QCC8D**

### Features

- Low loss RF filter for dual conversion
- Usable passband 28 MHz
- No matching network required for operation at 200  $\Omega$
- Balanced to balanced operation
- Low group delay ripple
- Ceramic package for **Surface Mounted Technology (SMT)**

### Terminals

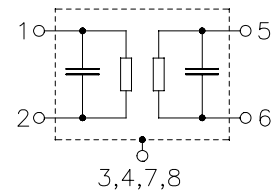
- Ni, gold-plated



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, to be grounded |



Type	Ordering code	Marking and Package according to	Packing according to
B1605	B39122-B1605-U810	C61157-A7-A72	F61074-V8168-Z000

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

### Maximum ratings

Operable temperature range	$T$	-40/+85	$^{\circ}\text{C}$	source and load impedance 200 $\Omega$
Storage temperature range	$T_{\text{stg}}$	-40/+85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Source power	$P_{\text{S}}$	0	dBm	



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### Characteristics

Operating temperature range:  $T = +25\text{ °C} \dots +85\text{ °C}$   
Terminating source impedance:  $Z_S = 200\ \Omega$   
Terminating load impedance:  $Z_L = 200\ \Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$		1220,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
1206,00 ... 1234,00 MHz		—	2,6	3,5	dB
<b>Amplitude ripple in passband (p-p)</b>	$\Delta\alpha$				
1206,00 ... 1234,00 MHz		—	1,1	1,3	dB
<b>Amplitude ripple in any 8 MHz band (p-p)</b>	$\Delta\alpha$				
1206,00 ... 1234,00 MHz		—	1,0	1,2	dB
<b>Amplitude ripple in any 6 MHz band (p-p)</b>	$\Delta\alpha$				
1206,00 ... 1234,00 MHz		—	0,9	1,1	dB
<b>Attenuation</b>	$\alpha$				
500,00 ... 1118,00 MHz		52,0	62,0	—	dB
1118,00 ... 1146,00 MHz		52,0	56,0	—	dB
1134,00 ... 1162,00 MHz		45,0	48,0	—	dB
1300,00 ... 2000,00 MHz		50,0	56,0	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
1206,00 ... 1234,00 MHz		—	14	—	ns



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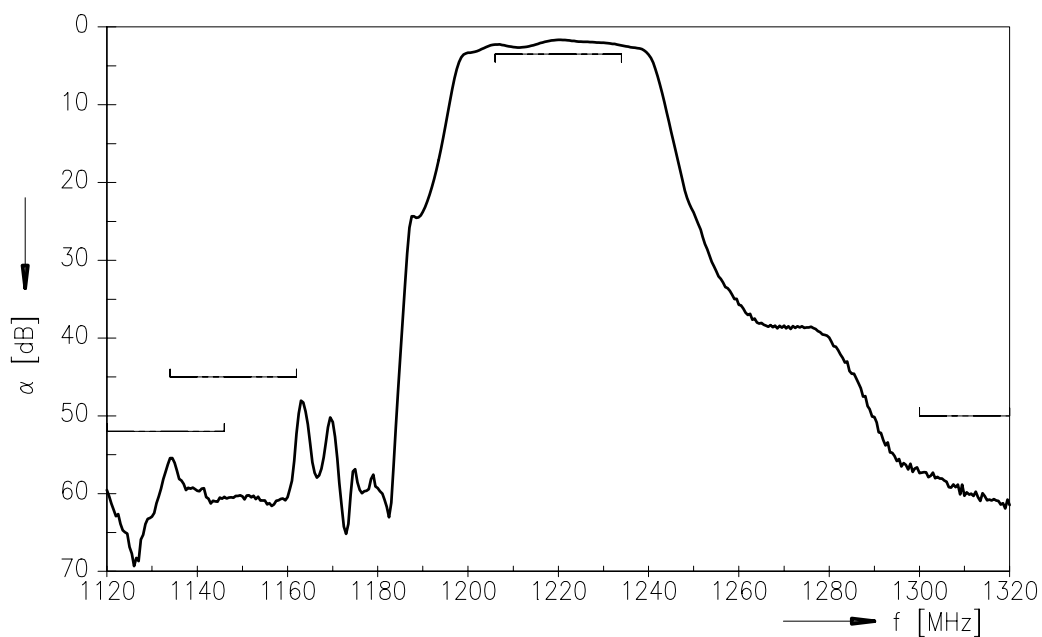
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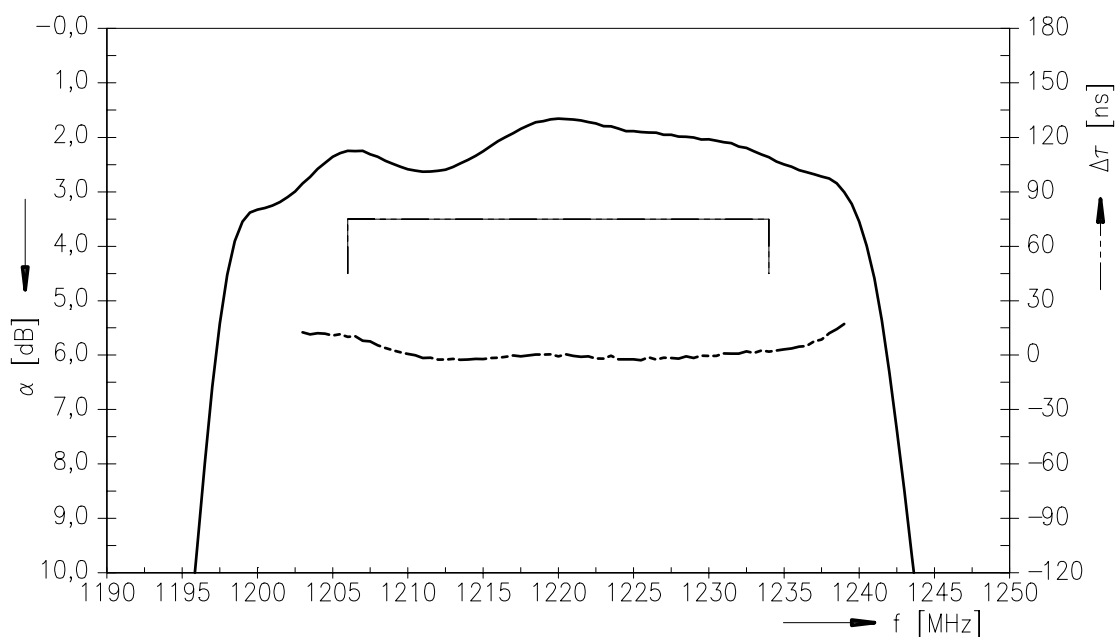
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Transfer function



Transfer function (passband)





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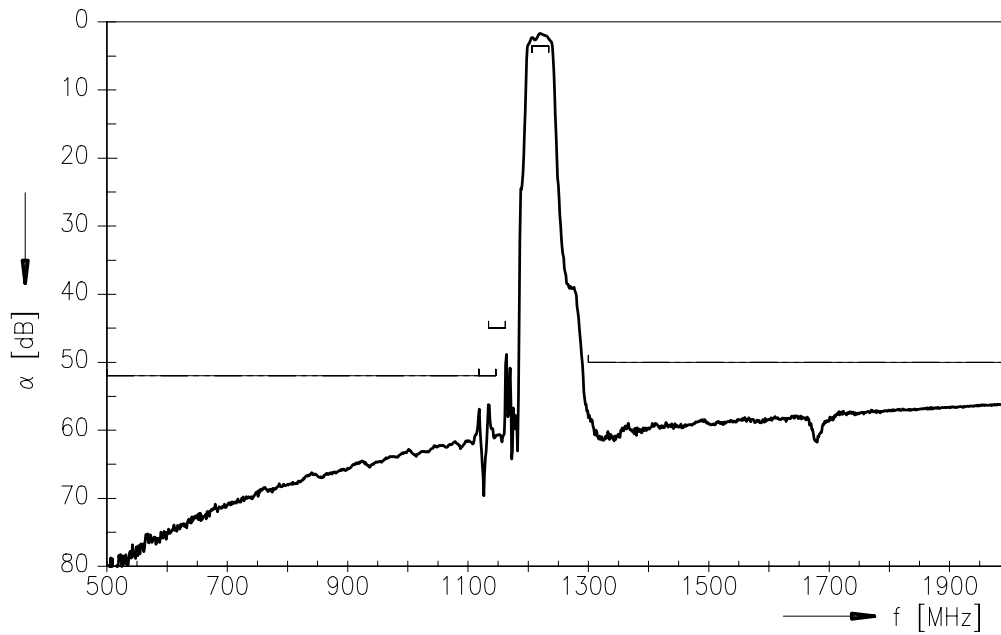
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Transfer function (wideband)





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