



SAW Filters for Multimedia Applications

Series/Type: B1605

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39122B1605U810		2011-03-25	2011-09-30	2011-12-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



SAW Components

B1605

Low-Loss Filter for Digital Television

1220,0 MHz

Data Sheet



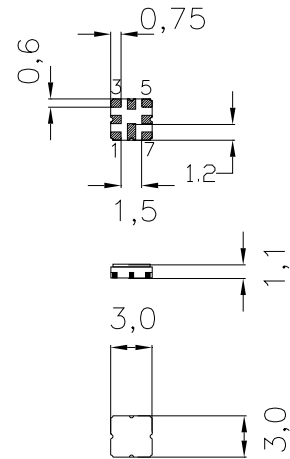
SMD package **QCC8D**

Features

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

Terminals

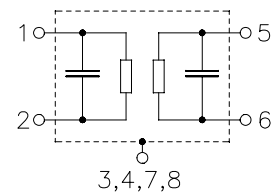
- Ni, gold-plated



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 Ω
Storage temperature range	T_{stg}	-40/+85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_{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.	
Nominal frequency	f_N		1220,0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
1206,00 ... 1234,00 MHz		—	2,6	3,5	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
1206,00 ... 1234,00 MHz		—	1,1	1,3	dB
Amplitude ripple in any 8 MHz band (p-p)	$\Delta\alpha$				
1206,00 ... 1234,00 MHz		—	1,0	1,2	dB
Amplitude ripple in any 6 MHz band (p-p)	$\Delta\alpha$				
1206,00 ... 1234,00 MHz		—	0,9	1,1	dB
Attenuation	α				
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
Group delay ripple (p-p)	$\Delta\tau$				
1206,00 ... 1234,00 MHz		—	14	—	ns



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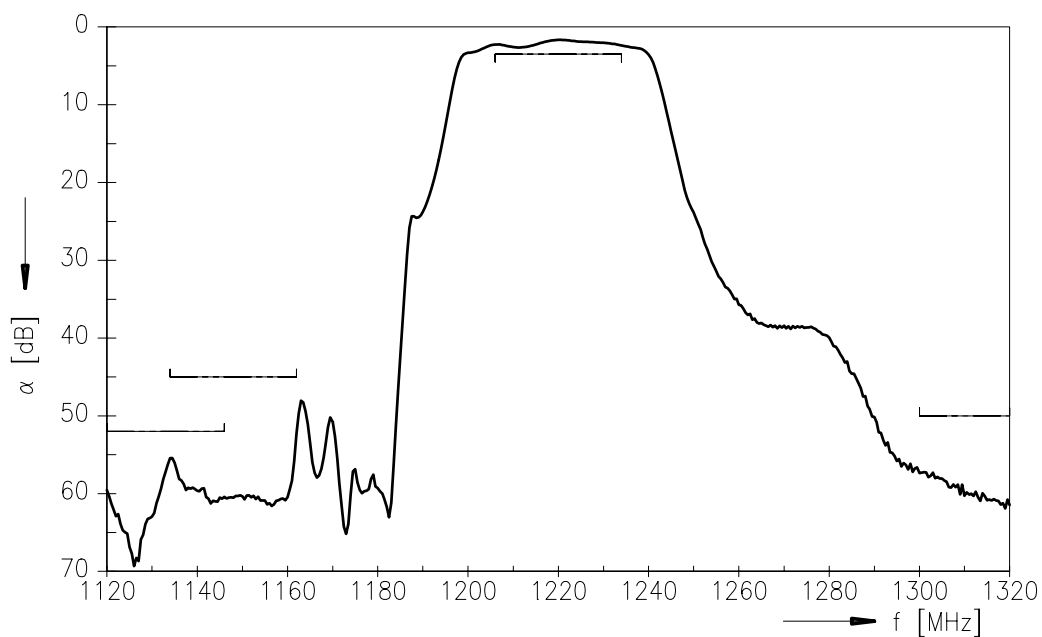
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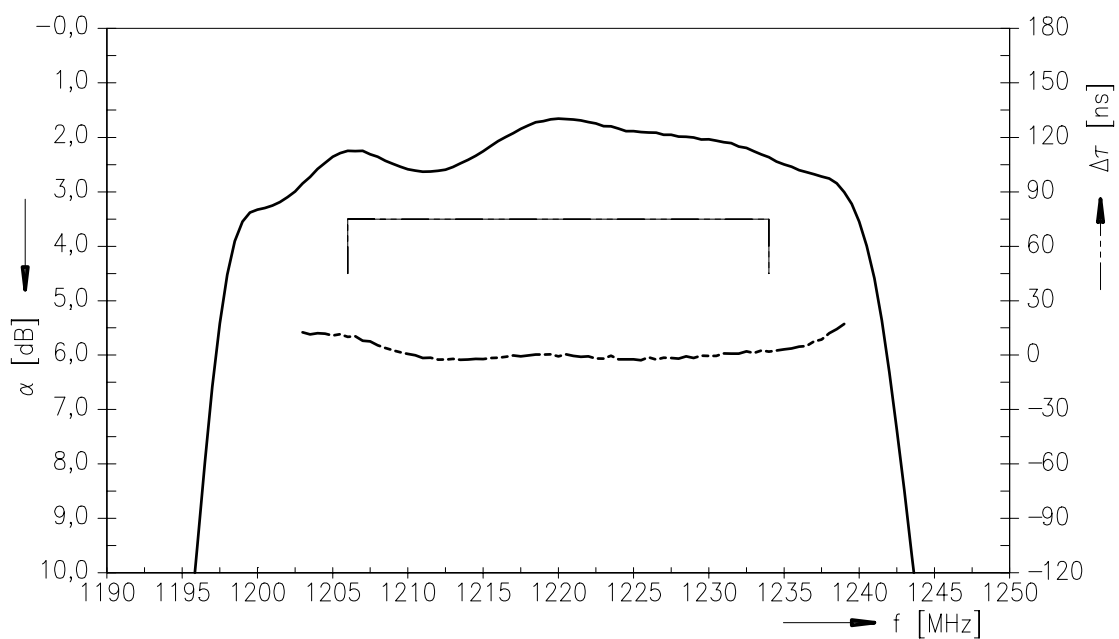
Data Sheet



Transfer function



Transfer function (passband)





SAW Components

B1605

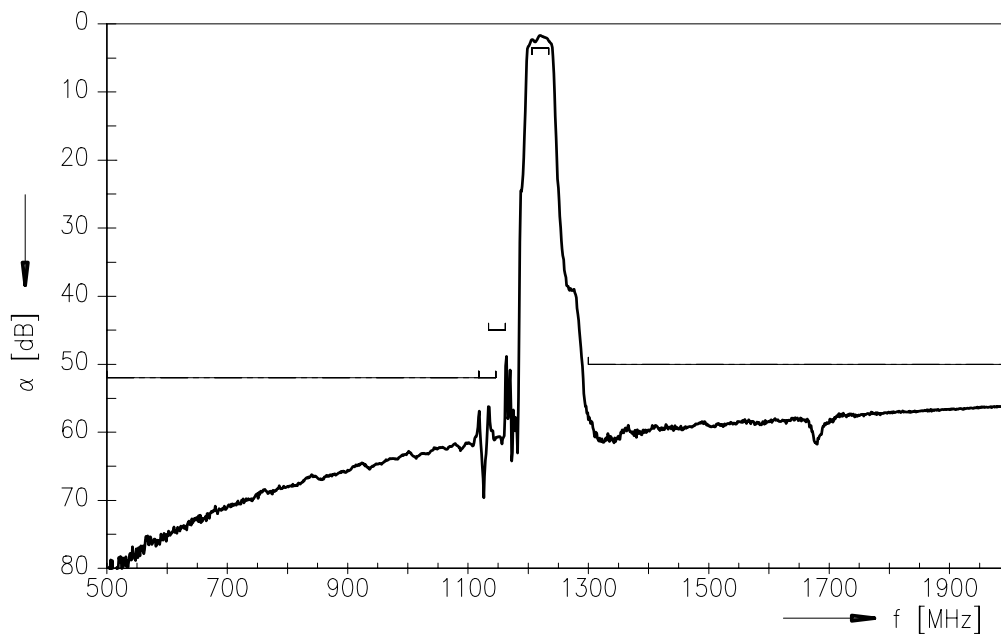
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Data Sheet



Transfer function (wideband)





SAW Components	B1605
Low-Loss Filter for Digital Television	1220,0 MHz
Data Sheet	SMD

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This brochure replaces the previous edition.

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