



# SAW Components

Data Sheet B1614





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Low-Loss Filter

1220,00 MHz

Data Sheet



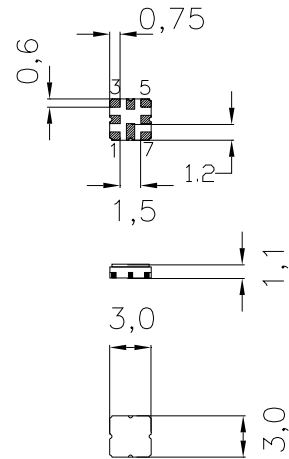
SMD ceramic package QCC8D

**Features**

- Low loss RF filter for dual conversion
- Usable passband 8 MHz
- No matching network required for operation at 100 Ω
- Balanced to balanced operation
- Low group delay ripple
- Package for Surface Mounted Technology (SMT)

**Terminals**

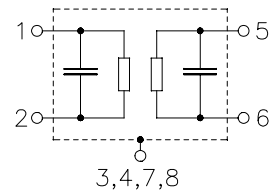
- Ni, gold-plated



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  |



Type	Ordering code	Marking and Package according to Marking	Packing according to
B1614	B39122-B1614-U810	C61157-A7-A72	F61074-V8168-Z000

Electrostatic Sensitive Device (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 impedance 100 Ω



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**Characteristics**

Operating temperature range:  $T = -40\text{ °C} \dots +85\text{ °C}$   
 Terminating source impedance:  $Z_S = 100\ \Omega$   
 Terminating load impedance:  $Z_L = 100\ \Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	1220,00	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
1216,00 ... 1224,00 MHz		—	2,3	3,0	dB
<b>Amplitude ripple in passband (p-p)</b>	$\Delta\alpha$				
1216,00 ... 1224,00 MHz		—	0,3	1,0	dB
<b>Attenuation<sup>*)</sup></b>	$\alpha$				
500,00 ... $f_N-91,00$ MHz		54,0	58,0	—	dB
$f_N-91,00$ ... $f_N-85,00$ MHz		54,0	58,0	—	dB
$f_N-76,00$ ... $f_N-68,00$ MHz		50,0	54,0	—	dB
$f_N-88,00$ MHz		54,0	60,0	—	dB
$f_N-72,00$ MHz		50,0	60,0	—	dB
$f_N-44,00$ MHz		45,0	50,0	—	dB
$f_N-36,00$ MHz		42,0	48,0	—	dB
$f_N+70,00$ ... 2000,00 MHz		54,0	60,0	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
1216,00 ... 1224,00 MHz		—	15,0	—	ns

<sup>\*)</sup> The minimum value for the attenuation specification is derived from the worst point of the filter's stopband over temperature and production variation. This worst point is the peak of the spike, appearing in a stopband segment. The attenuation close beside this spike is better than stated in the specification for the stopband segment.



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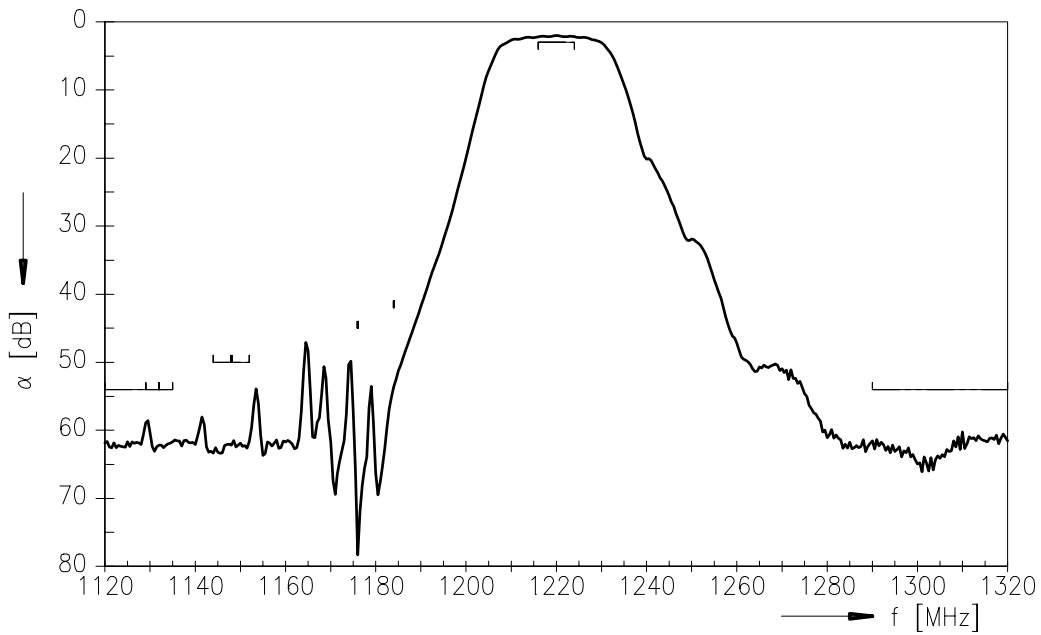
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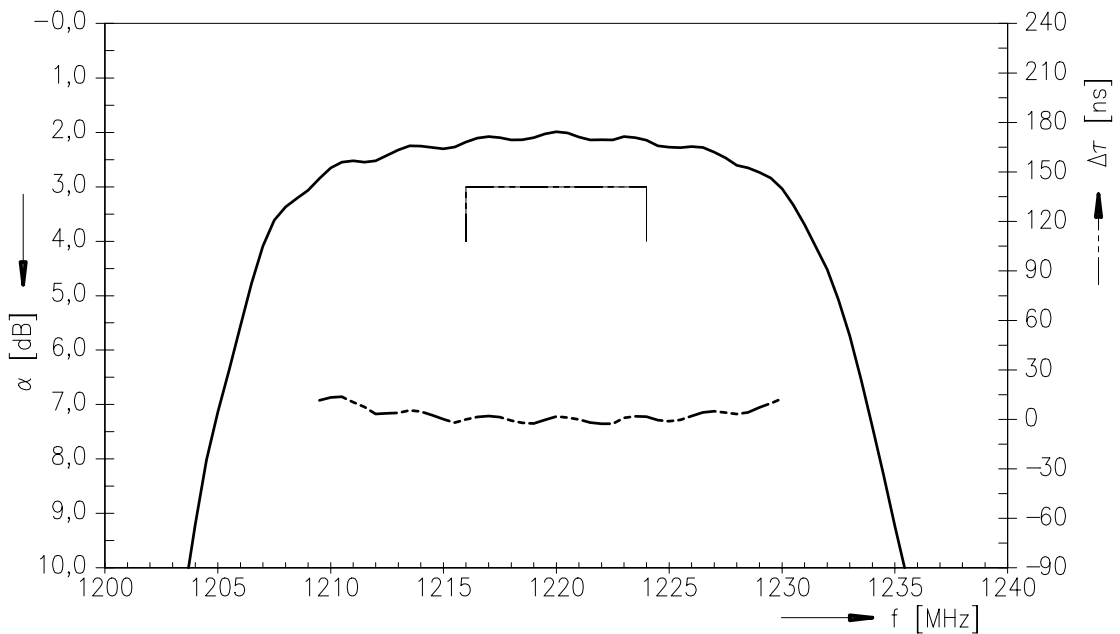
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Transfer function



Transfer function (passband)





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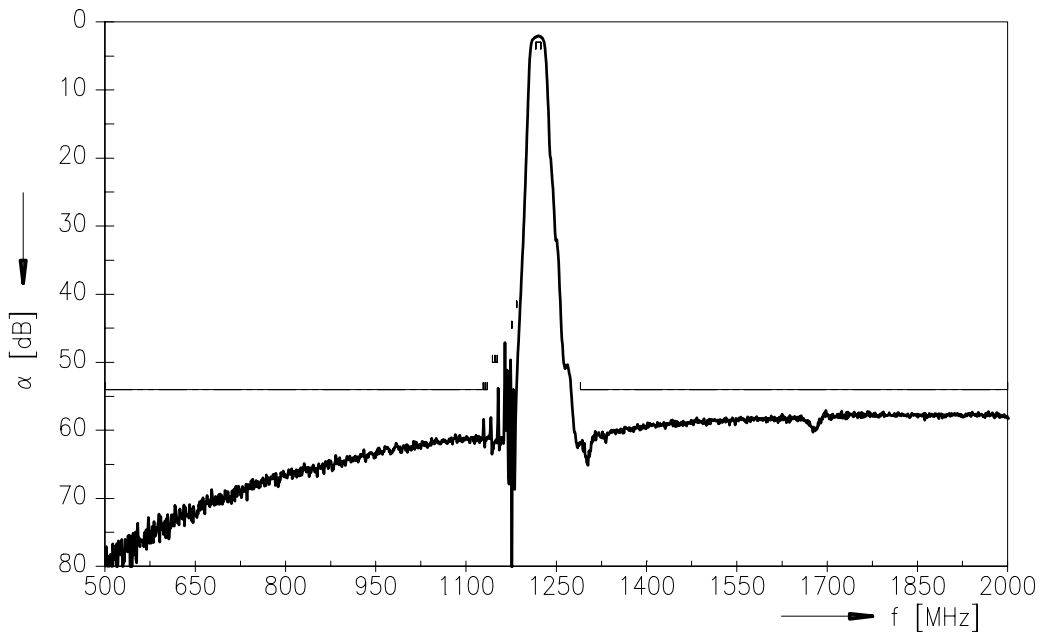
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Transfer function (wideband)





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