



SAW Components

Data Sheet B1614





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Low-Loss Filter

1220,00 MHz

Data Sheet



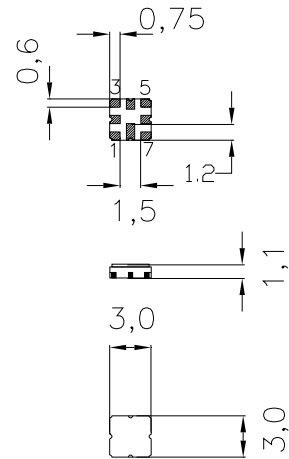
SMD ceramic package QCC8D

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

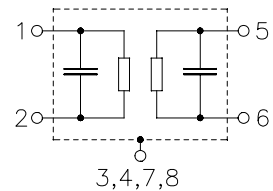
- Ni, gold-plated



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.	
Nominal frequency	f_N	—	1220,00	—	MHz
Maximum insertion attenuation	α_{max}				
	1216,00 ... 1224,00 MHz	—	2,3	3,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
	1216,00 ... 1224,00 MHz	—	0,3	1,0	dB
Attenuation*)	α				
	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
Group delay ripple (p-p)	$\Delta\tau$				
	1216,00 ... 1224,00 MHz	—	15,0	—	ns

*) 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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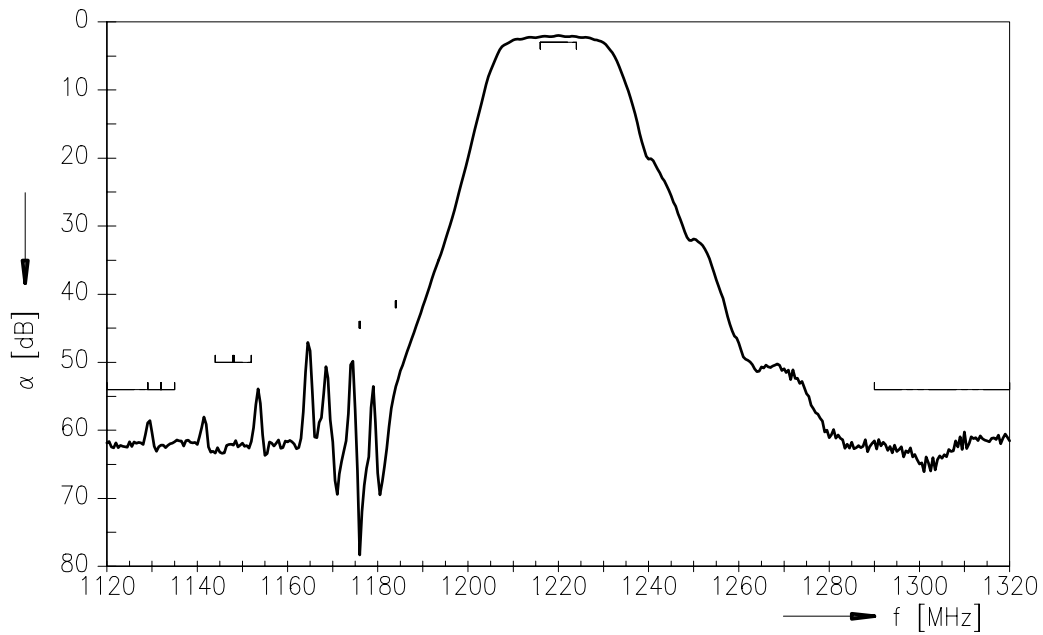
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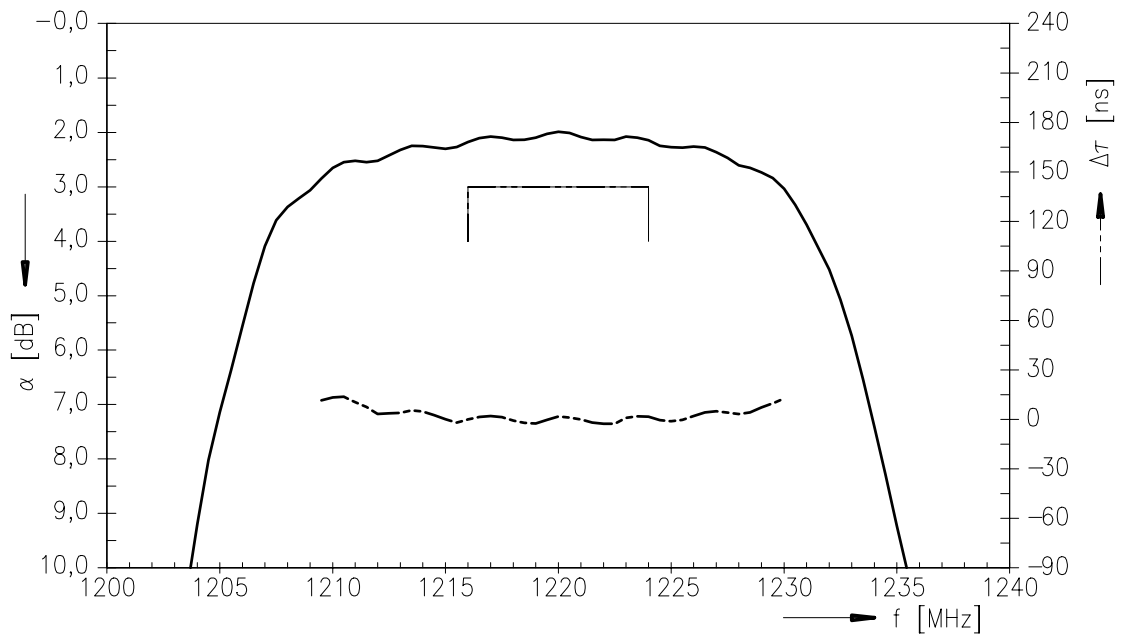
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Transfer function



Transfer function (passband)





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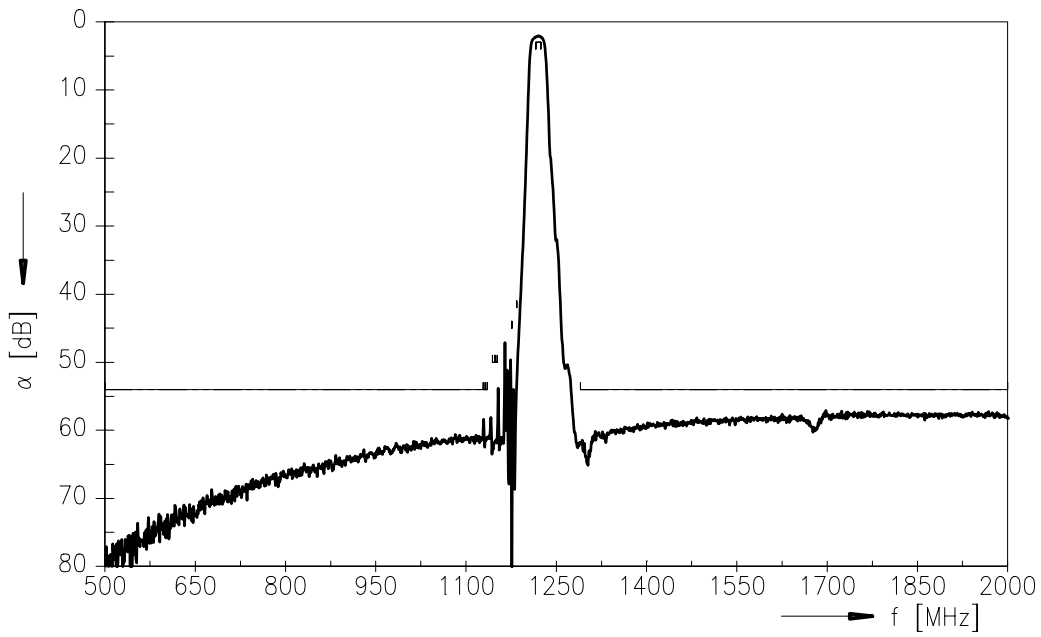
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Transfer function (wideband)





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