



SAW Components

Data Sheet B1610

Data Sheet

EPCOS



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B1610

Low-Loss Filter

1220,00 MHz

Data Sheet



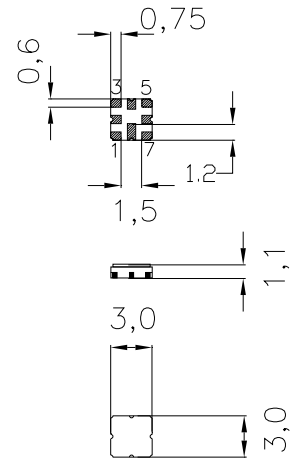
SMD ceramic package **QCC8D**

Features

- Low loss RF filter for dual conversion
- Usable passband 8 MHz
- No matching network required for operation at 200 Ω
- Balanced to balanced operation
- Low group delay ripple
- Package for **Surface Mounted Technology (SMT)**

Terminals

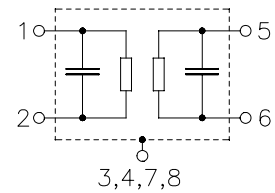
- Ni, gold-plated



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	Packing according to
B1610	B39122-B1610-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 and load impedance 200 Ω



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Characteristics

Operating temperature range: $T = -40\text{ °C} \dots +85\text{ °C}$
Terminating source impedance: $Z_S = 200\ \Omega$
Terminating load impedance: $Z_L = 200\ \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	1220,00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
1216,00 ... 1224,00 MHz		—	3,6	4,2	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
1216,00 ... 1224,00 MHz		—	0,6	1,2	dB
Attenuation	α				
500,00 ... $f_N-91,00$ MHz		58,0	62,0	—	dB
$f_N-91,00$... $f_N-85,00$ MHz		58,0	62,0	—	dB
$f_N-76,00$... $f_N-68,00$ MHz		56,0	60,0	—	dB
$f_N-88,00$ MHz		58,0	62,0	—	dB
$f_N-72,00$ MHz		56,0	60,0	—	dB
$f_N-44,00$ MHz		46,0	54,0	—	dB
$f_N-36,00$ MHz		42,0	44,0	—	dB
$f_N+70,00$... 2000,00 MHz		56,0	62,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$				
1216,00 ... 1224,00 MHz		—	15	—	ns



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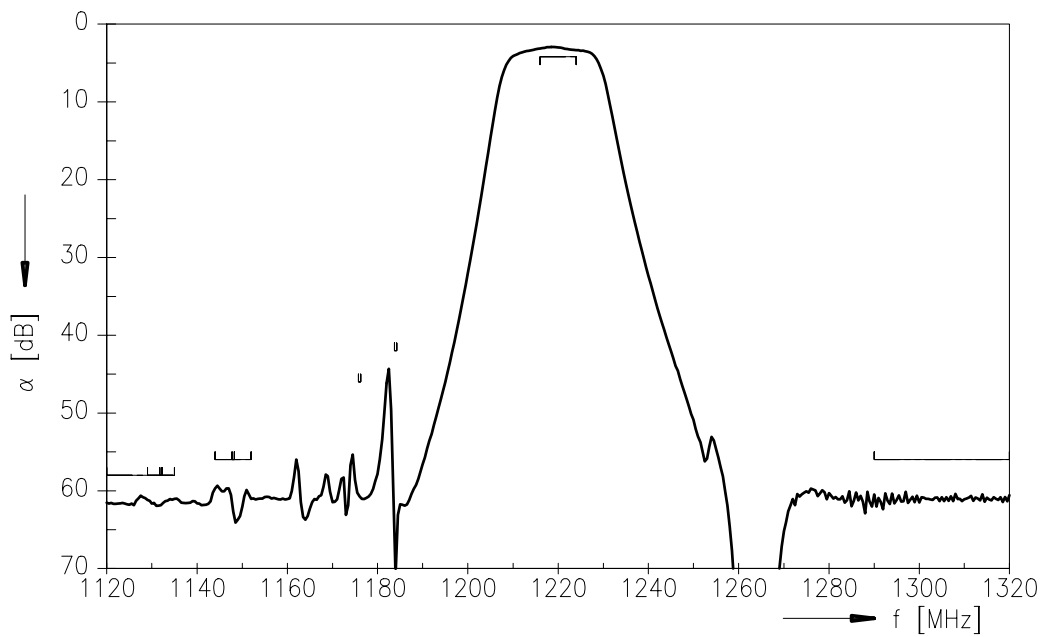
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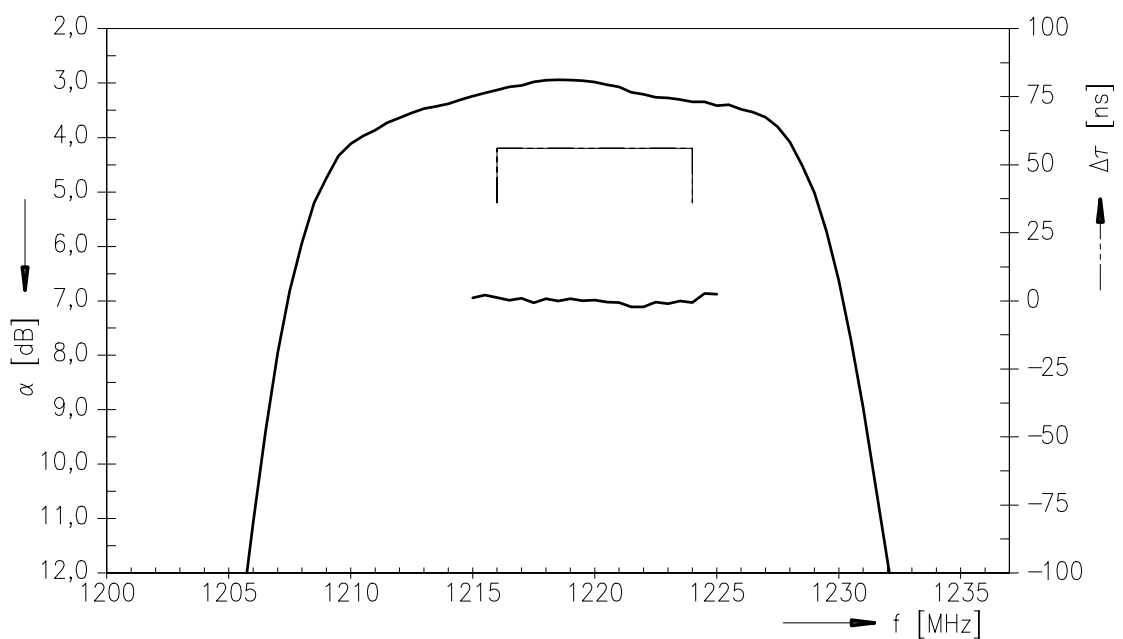
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Transfer function



Transfer function (passband)





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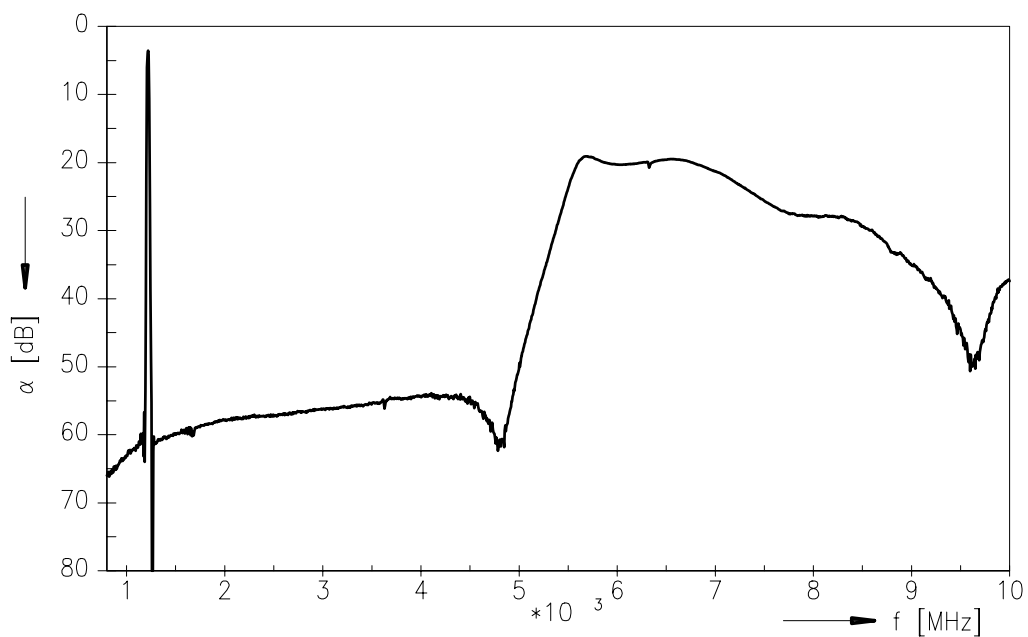
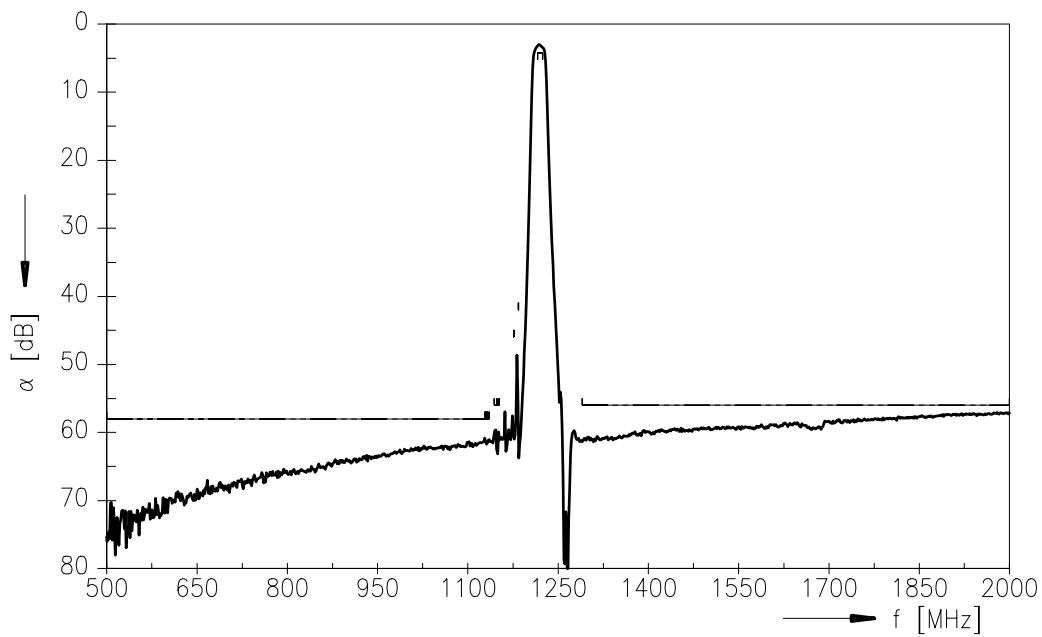
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Transfer function (wideband)





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