



# SAW Components

Data Sheet B1618

Data Sheet

EPCOS



<b>SAW Components</b>	<b>B1618</b>
<b>RF Filter For Dual Conversion</b>	<b>1216,00 MHz</b>



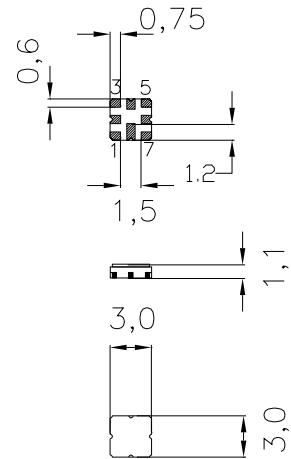
SMD package **QCC8D**

#### Features

- Low loss RF filter for dual conversion
- Usable passband 8 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

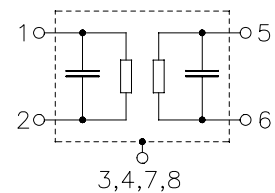
- Ni, gold-plated



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



Type	Ordering code	Marking	Packing according to
B1618	B39122-B1618-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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1216,00 MHz



### Characteristics

Operating temperature range:  $T = 35\text{ °C to }75\text{ °C}$   
Terminating source impedance:  $Z_S = 200\ \Omega$   
Terminating load impedance:  $Z_L = 200\ \Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	1216,00	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
1212,00 ... 1220,00 MHz		—	3,2	4,2	dB
<b>Amplitude ripple in passband (p-p)</b>	$\Delta\alpha$				
1212,00 ... 1220,00 MHz		—	0,7	1,2	dB
<b>Amplitude ripple in any 6 MHz channel (p-p)</b>	$\Delta\alpha$				
1212,00 ... 1220,00 MHz		—	0,7	1,2	dB
<b>Pass bandwidth</b>					
$\alpha_{\text{rel}} \leq 3\text{ dB}$	$B_{3\text{dB}}$	12,1	17,3	—	MHz
$\alpha_{\text{rel}} \leq 12\text{ dB}$	$B_{12\text{dB}}$	16,6	21,8	—	MHz
<b>Attenuation</b>	$\alpha$				
500,00 ... $f_N - 91,00$ MHz		56,0	60,0	—	dB
$f_N - 91,00$ ... $f_N - 85,00$ MHz		56,0	60,0	—	dB
$f_N - 76,00$ ... $f_N - 68,00$ MHz		55,0	59,0	—	dB
$f_N - 88,00$ MHz		56,0	60,0	—	dB
$f_N - 72,00$ MHz		55,0	59,0	—	dB
$f_N - 44,00$ MHz		50,0	57,0	—	dB
$f_N - 36,00$ MHz		46,0	50,0	—	dB
$f_N + 40,00$ ... 2000,00 MHz		54,0	60,0	—	dB
<b>Group delay ripple (p-p)</b>					
1212,00 ... 1220,00 MHz		—	15	—	ns



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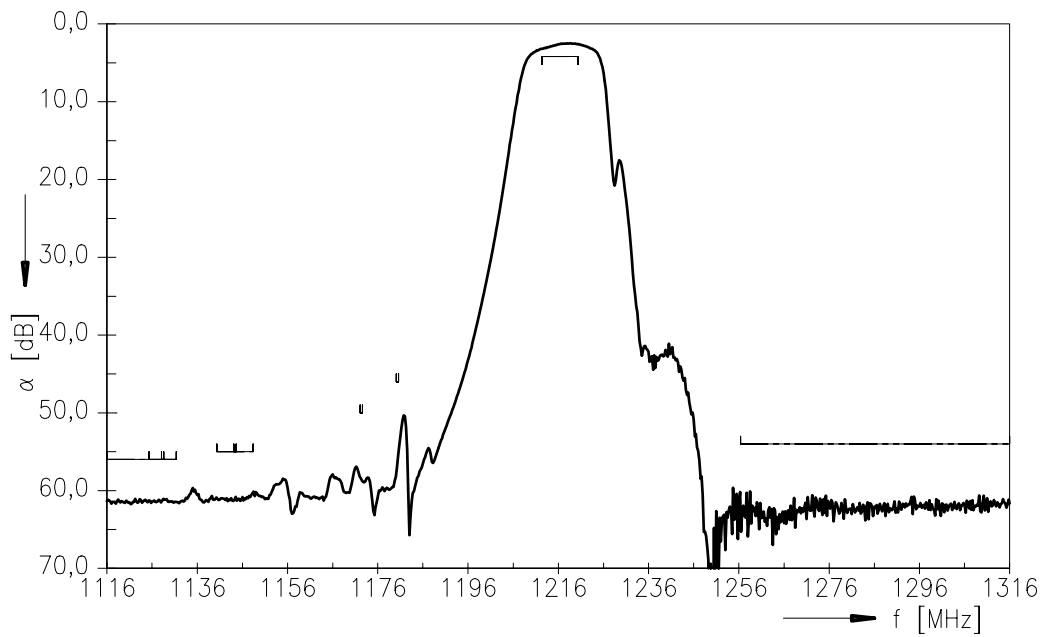
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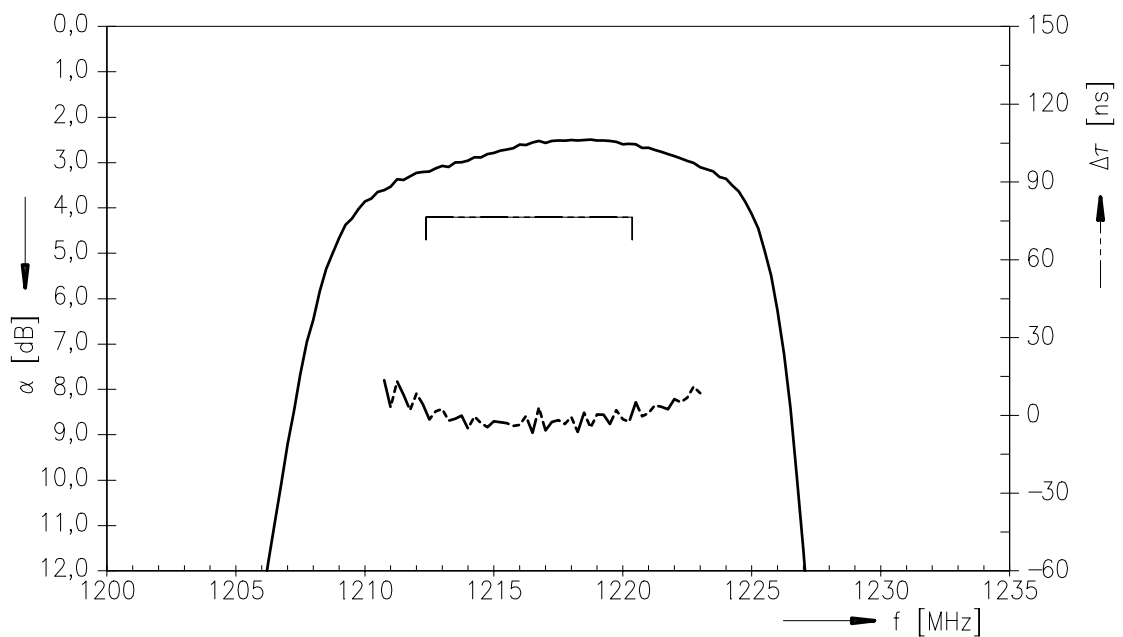
1216,00 MHz



### Transfer function



### Transfer function (passband)





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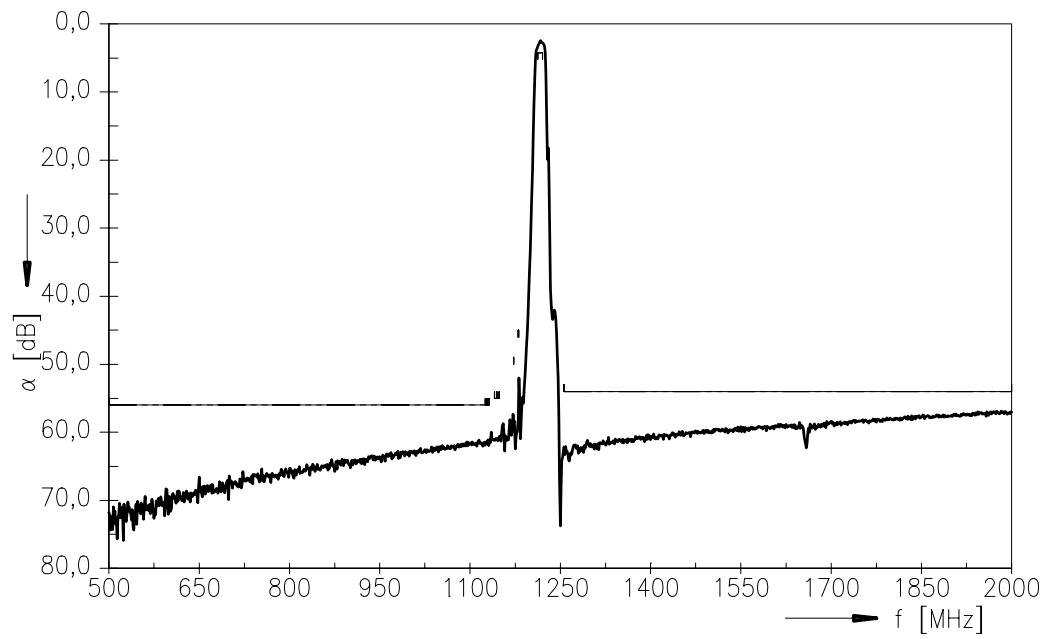
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Transfer function (wideband)





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**1216,00 MHz**



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