



SAW Components

Data Sheet B1618





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B1618

RF Filter For Dual Conversion

1216,00 MHz



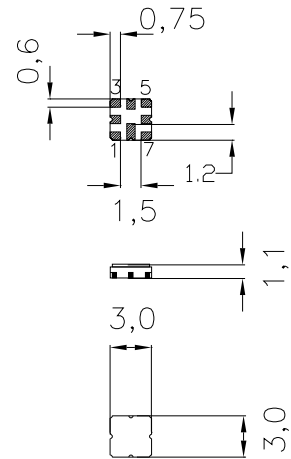
SMD package QCC8D

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
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

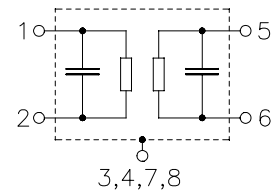
- Ni, gold-plated



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 Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-40/+85	°C	source and load impedance 200 Ω
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_S	0	dBm	



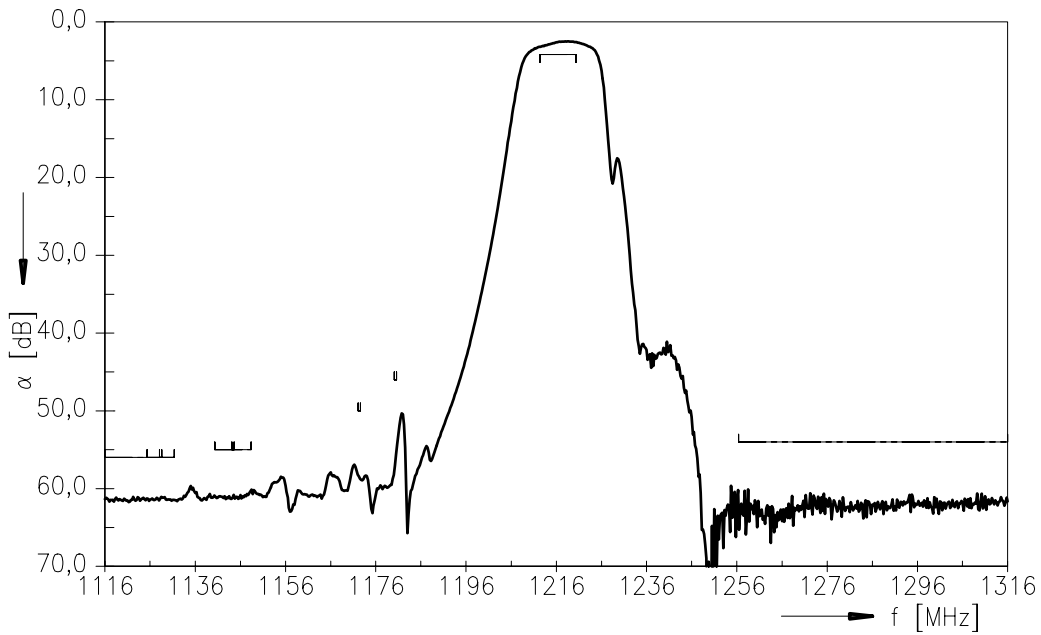
Characteristics

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

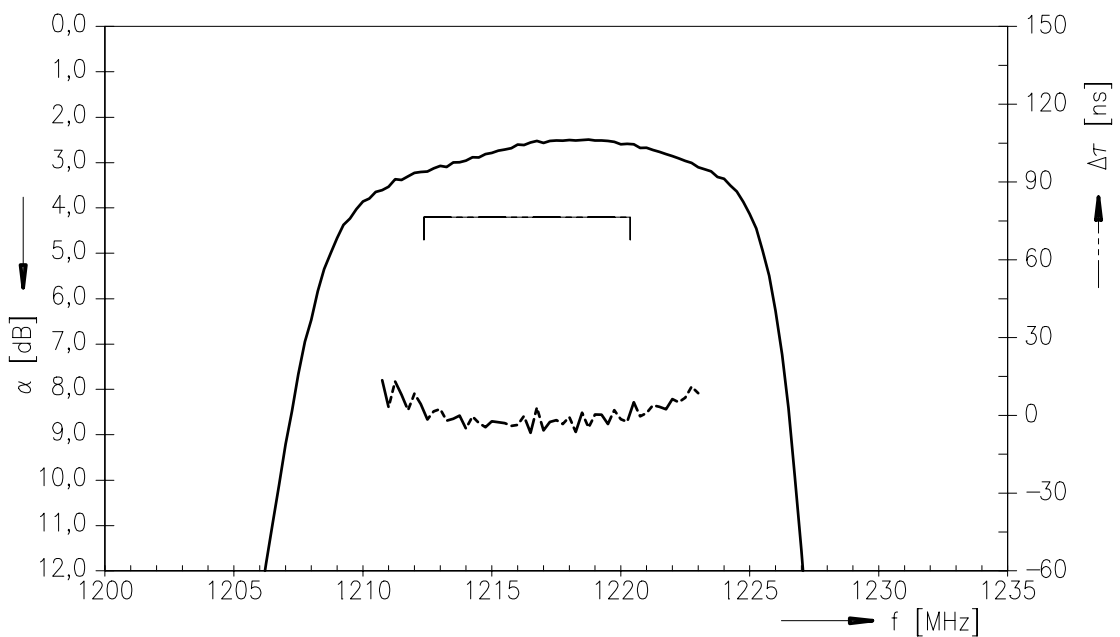
		min.	typ.	max.	
Nominal frequency	f_N	—	1216,00	—	MHz
Maximum insertion attenuation	α_{max}				
1212,00 ... 1220,00 MHz		—	3,2	4,2	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
1212,00 ... 1220,00 MHz		—	0,7	1,2	dB
Amplitude ripple in any 6 MHz channel (p-p)	$\Delta\alpha$				
1212,00 ... 1220,00 MHz		—	0,7	1,2	dB
Pass bandwidth					
$\alpha_{rel} \leq 3\text{ dB}$	B_{3dB}	12,1	17,3	—	MHz
$\alpha_{rel} \leq 12\text{ dB}$	B_{12dB}	16,6	21,8	—	MHz
Attenuation	α				
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
Group delay ripple (p-p)					
1212,00 ... 1220,00 MHz		—	15	—	ns



Transfer function



Transfer function (passband)





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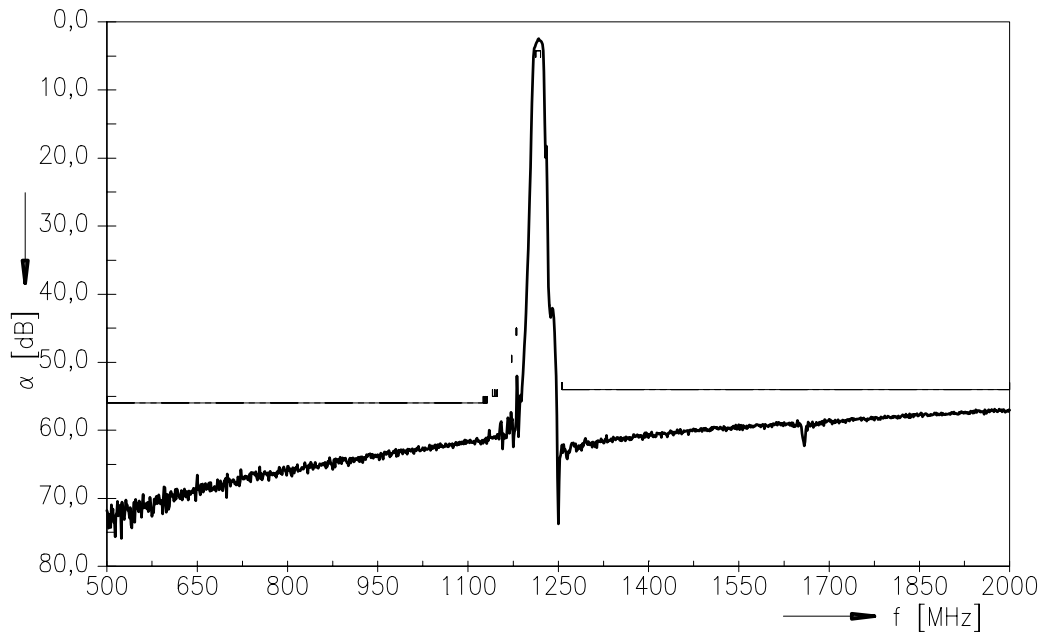
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Transfer function (wideband)





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