EPCOS

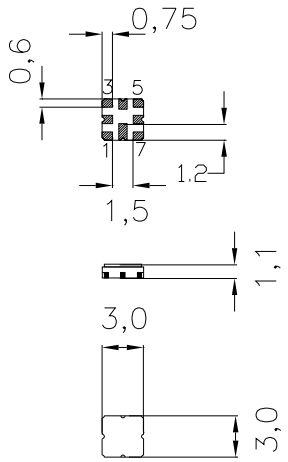
SAW Components

Data Sheet B1618

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 **S**urface **M**ounted **T**echnology **(SMT)**



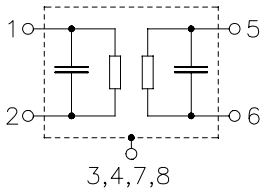
Dimensions in mm, approx. weight 0,037 g

Terminals

- Ni, gold-plated

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	˚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

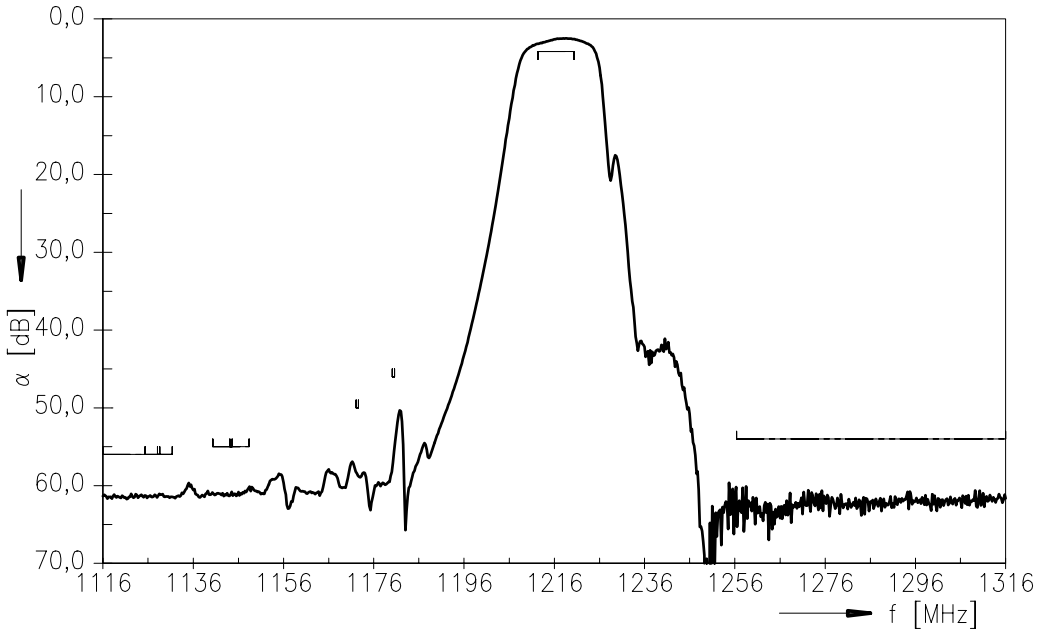
SMD

Characteristics

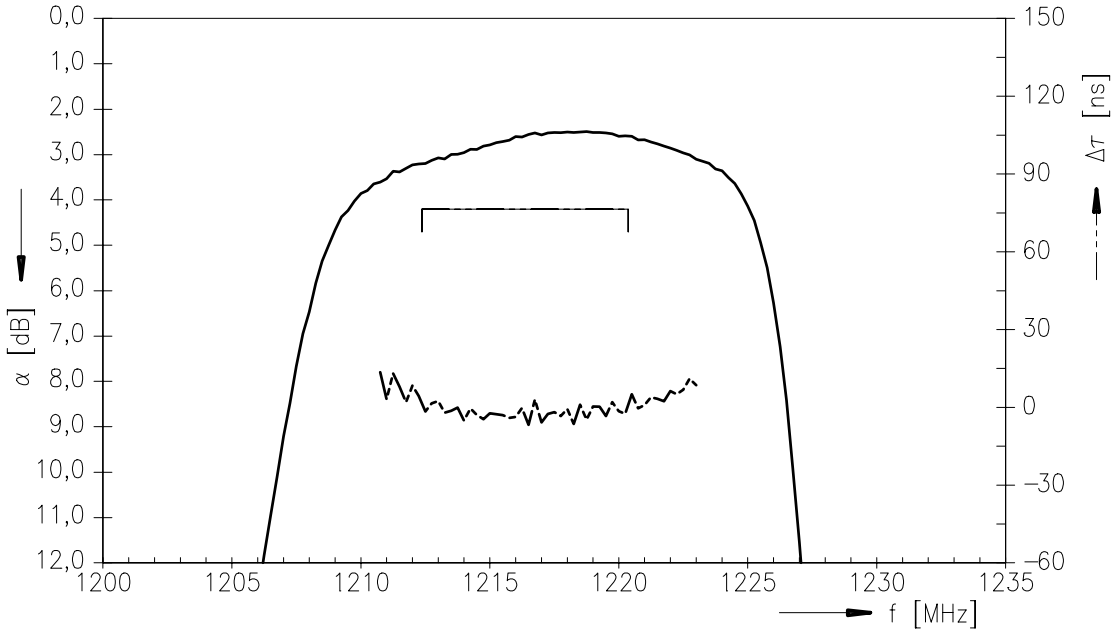
Operating temperature range: T = 35 ˚C to 75 ˚C
Terminating source impedance: Z_S = 200 Ω
Terminating load impedance: Z_L = 200 Ω

		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					
$\alpha_{rel} \leq 3$ dB	B_{3dB}	12,1	17,3	—	MHz
$\alpha_{rel} \leq 12$ 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

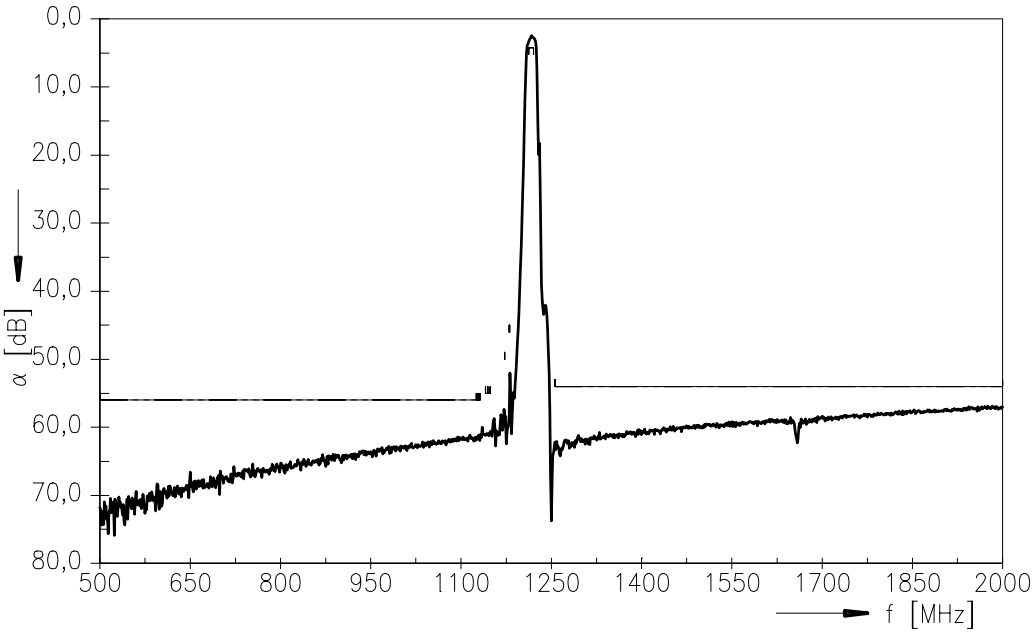
Transfer function



Transfer function (passband)



Transfer function (wideband)



SMD

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