EPCOS

SAW Components

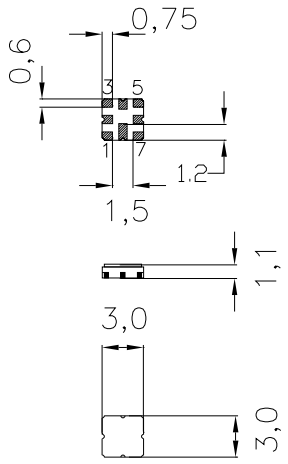
Data Sheet B1618

SMD

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)**



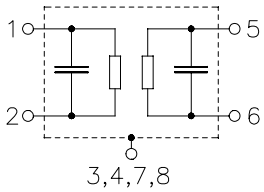
Dimensions in mm, approx. weight 0,037 g

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

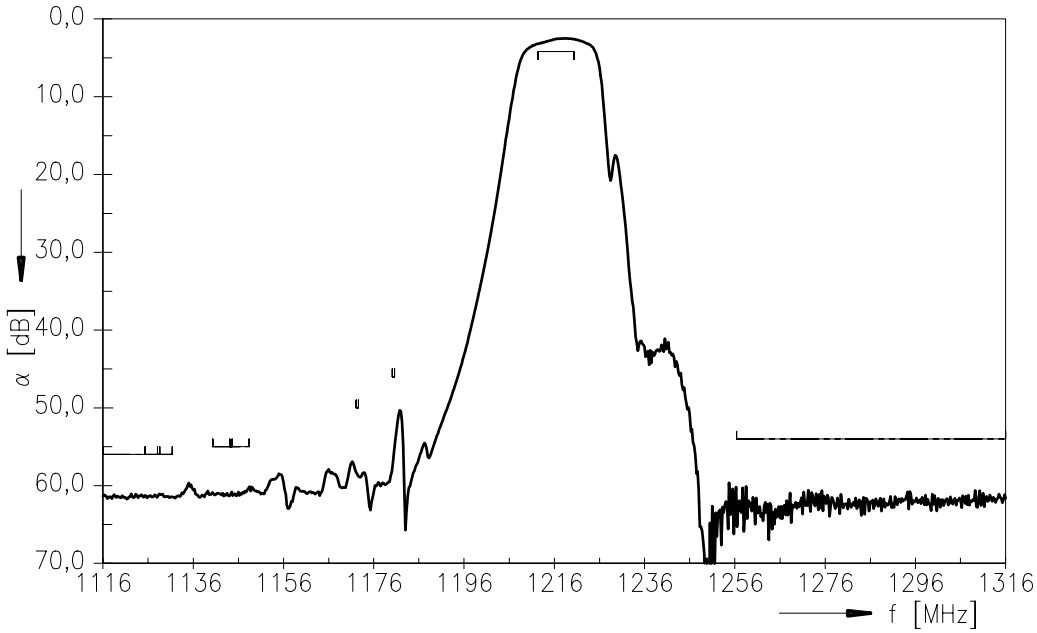
SMD

Characteristics

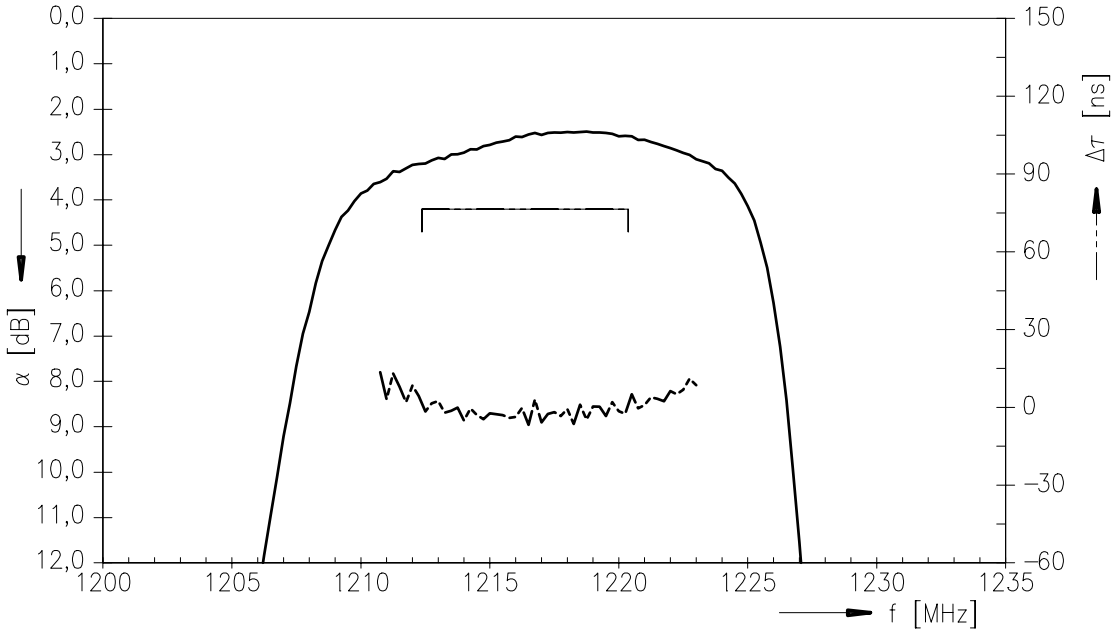
Operating temperature range: T = 35 ˚C to 75 ˚C
Terminating source impedance: Z_S = 200 Ω
Terminating load impedance: Z_L = 200 Ω

		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

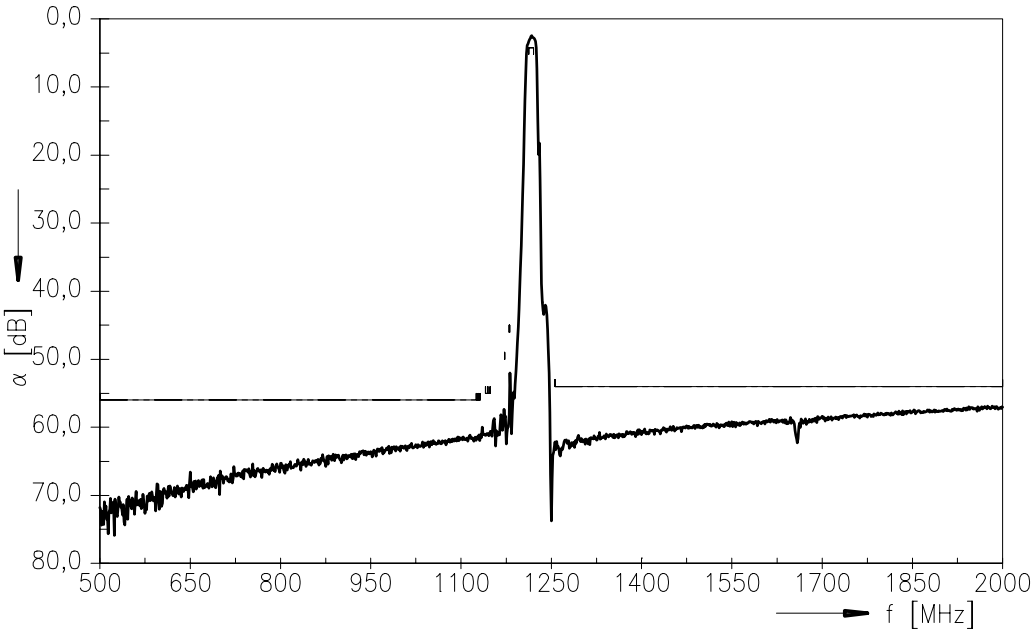
Transfer function



Transfer function (passband)



Transfer function (wideband)



SMD

Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC PD 2
P.O. Box 80 17 09, 81617 Munich, GERMANY

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

EPCOS:
B39122B1618U810