



SAW Components

Data Sheet B1618

Data Sheet

EPCOS



SAW Components

B1618

RF Filter For Dual Conversion

1216,00 MHz



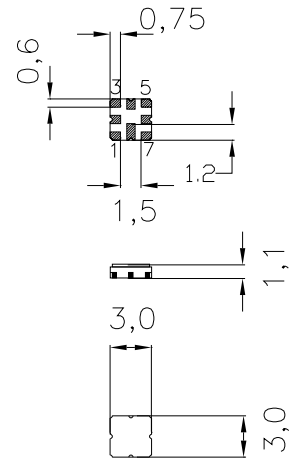
SMD package QCC8D

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

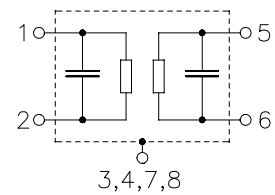
- Ni, gold-plated



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	$^{\circ}\text{C}$	source and load impedance 200 Ω
Storage temperature range	T_{stg}	-40/+85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_{S}	0	dBm	



SAW Components	B1618
RF Filter For Dual Conversion	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.	
Nominal frequency	f_N	—	1216,00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
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					
$\alpha_{\text{rel}} \leq 3\text{ dB}$	$B_{3\text{dB}}$	12,1	17,3	—	MHz
$\alpha_{\text{rel}} \leq 12\text{ dB}$	$B_{12\text{dB}}$	16,6	21,8	—	MHz
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



SAW Components

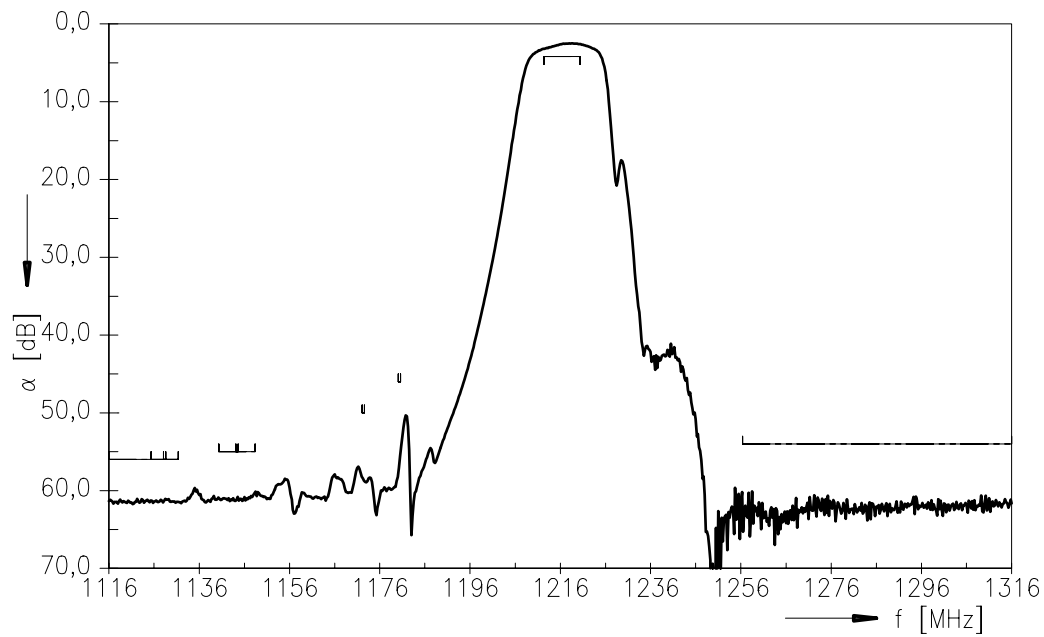
B1618

RF Filter For Dual Conversion

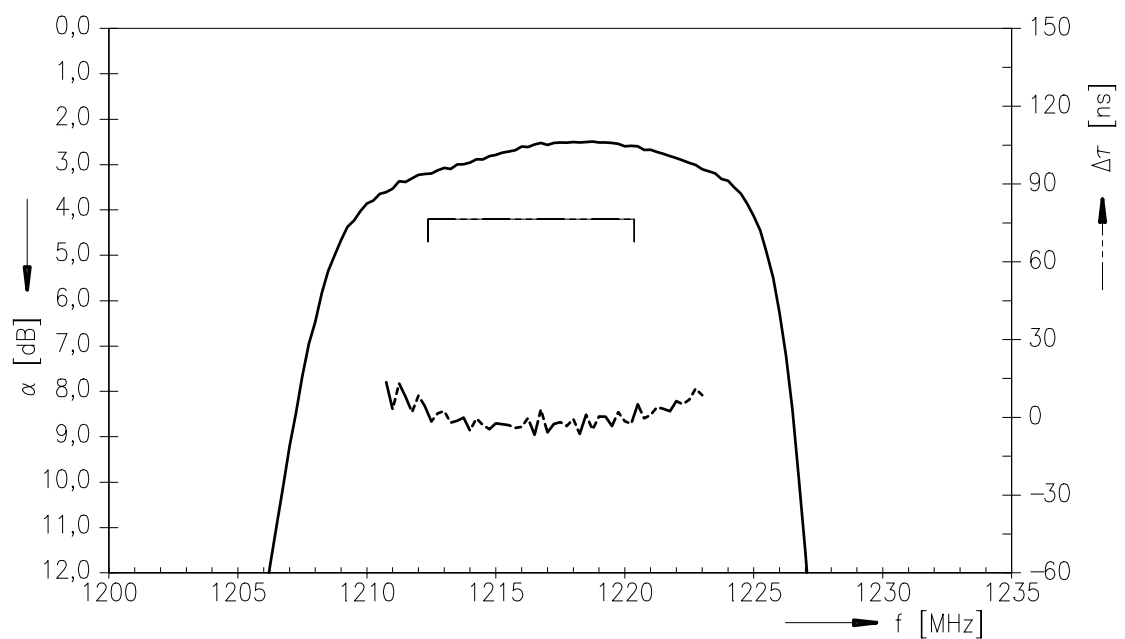
1216,00 MHz



Transfer function



Transfer function (passband)





SAW Components

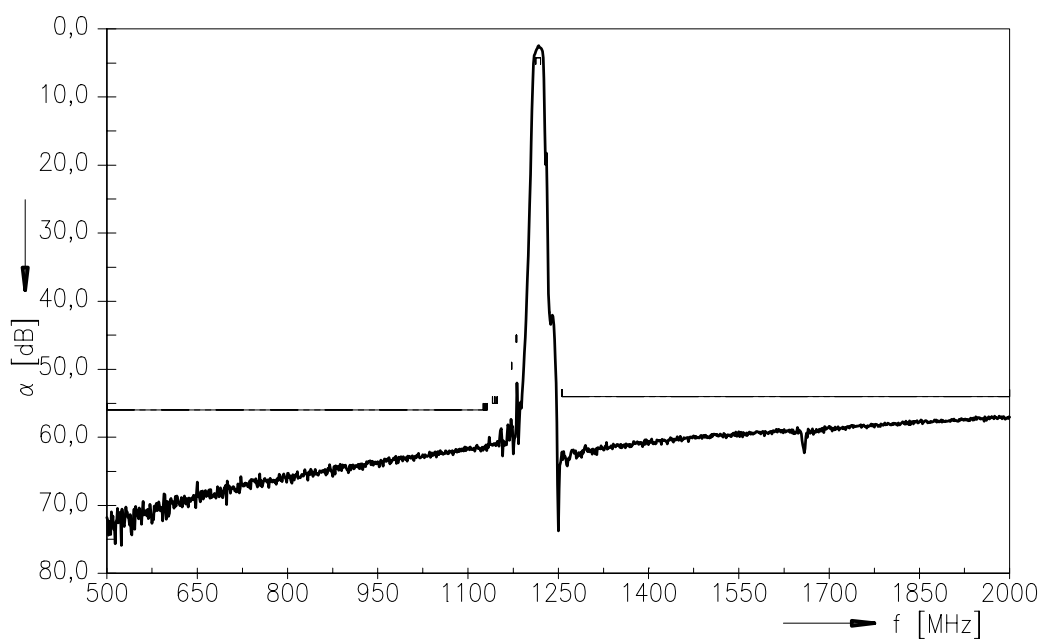
B1618

RF Filter For Dual Conversion

1216,00 MHz



Transfer function (wideband)





SAW Components

B1618

RF Filter For Dual Conversion

1216,00 MHz



Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC PD 2

P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2004. Reproduction, publication and dissemination of this data sheet, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

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.