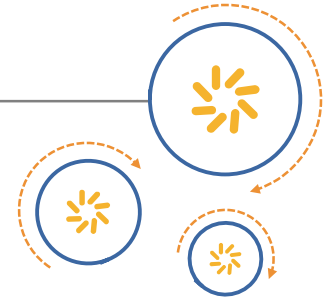




**THE DATASHEET OF
B39122B1610U810**





RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

SAW Components

Low-Loss Filter

Data Sheet B1610

Series/type: B1610
Ordering code:

Date: Jul 03, 2003
Version:

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SAW Components

Data Sheet B1610

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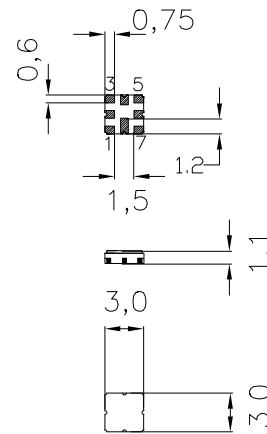
EPCOS AG is a TDK Group Company.


 SMD ceramic 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
- Package for **Surface Mounted Technology (SMT)**

Terminals

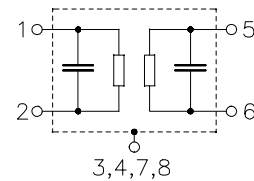
- Ni, gold-plated



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 and Package according to	Packing according to
B1610	B39122–B1610–U810	C61157-A7-A72	F61074-V8168-Z000

Electrostatic Sensitive Device (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

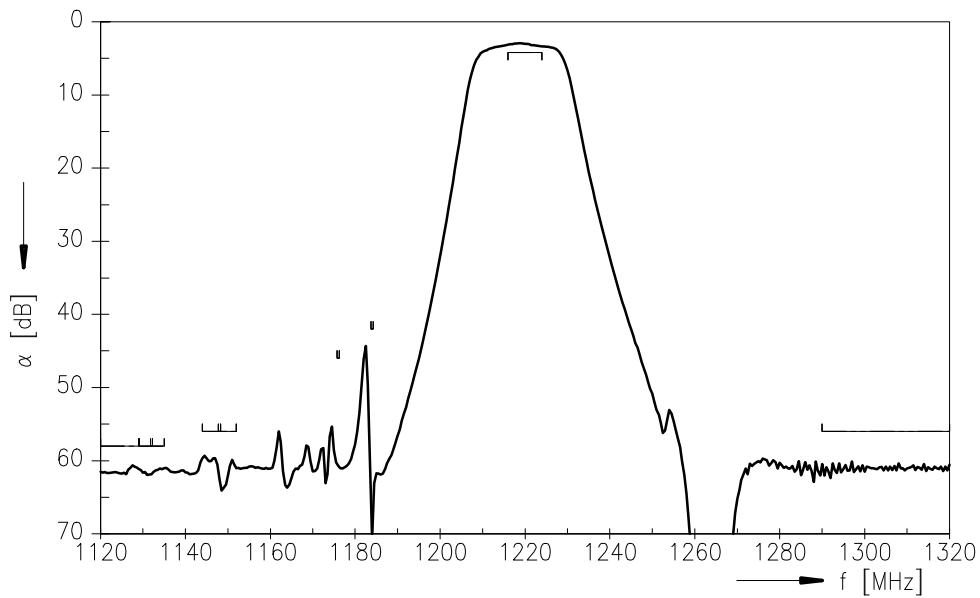
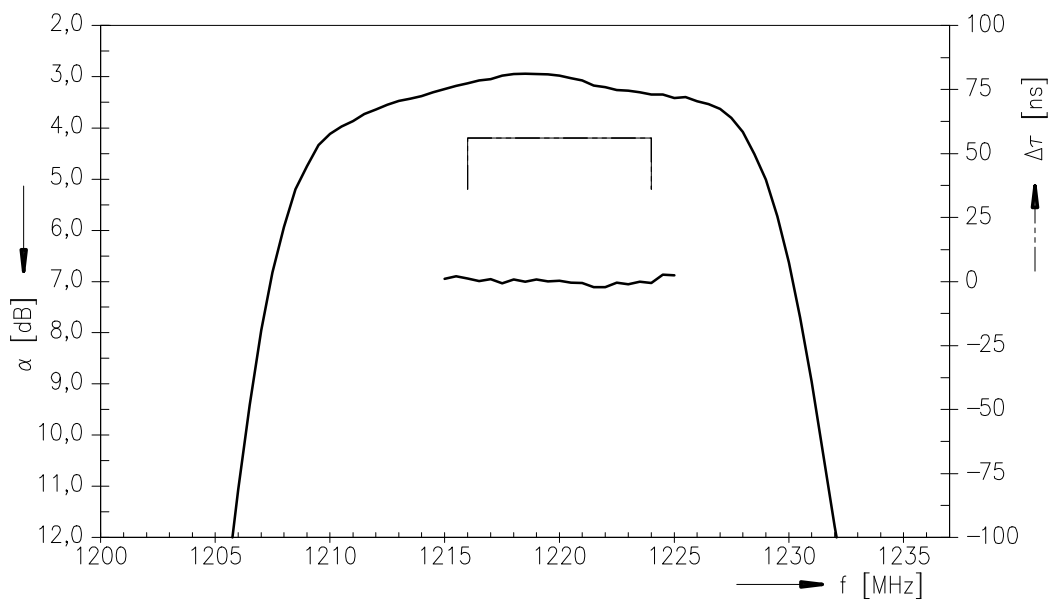
SAW Components	B1610
Low-Loss Filter	1220,00 MHz

Data Sheet

Characteristics

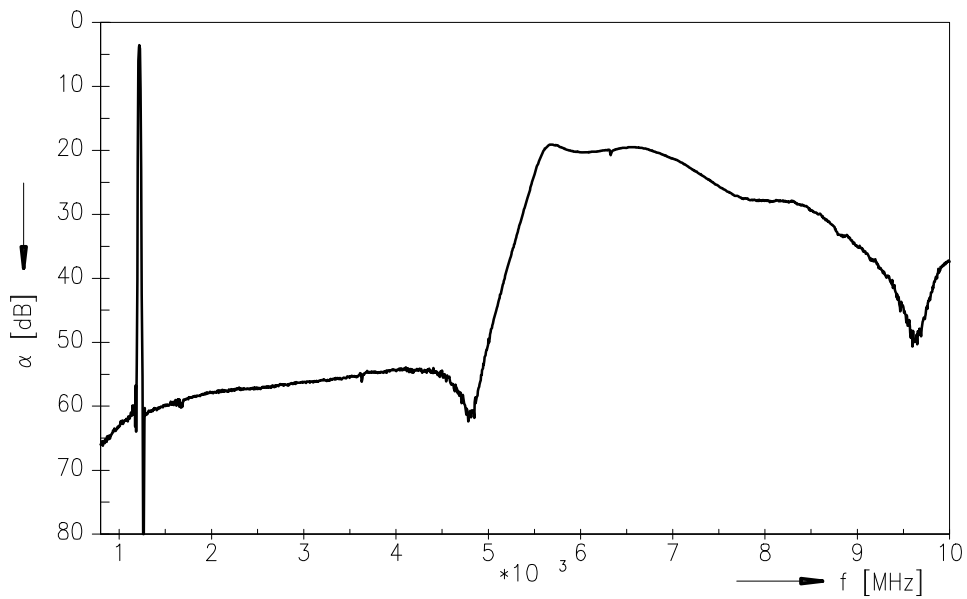
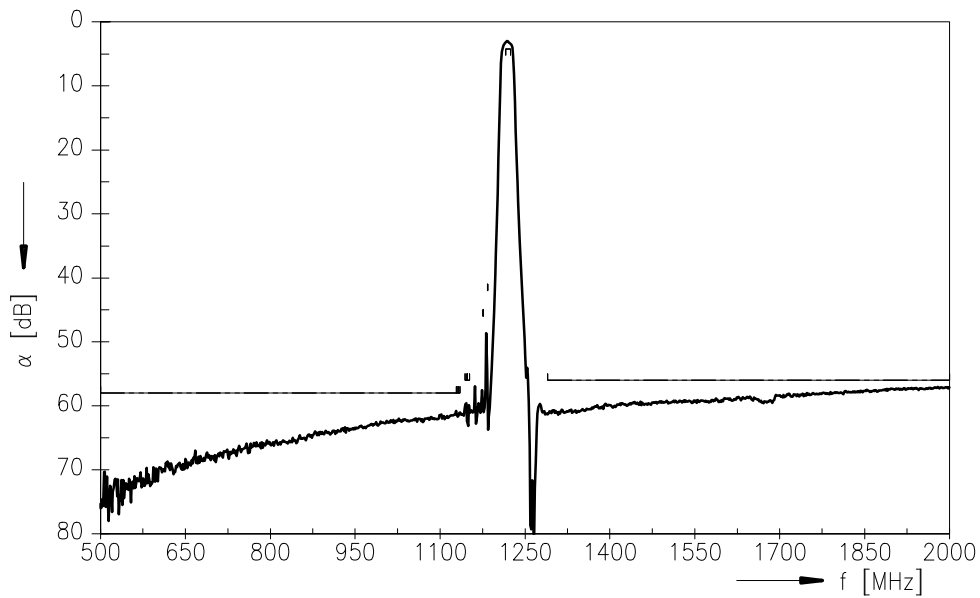
Operating temperature range:	$T = -40\text{ °C} \dots +85\text{ °C}$
Terminating source impedance:	$Z_S = 200\ \Omega$
Terminating load impedance:	$Z_L = 200\ \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	1220,00	—	MHz
Maximum insertion attenuation	α_{\max}				
	1216,00 ... 1224,00 MHz	—	3,6	4,2	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
	1216,00 ... 1224,00 MHz	—	0,6	1,2	dB
Attenuation	α				
	500,00 ... $f_N-91,00$ MHz	58,0	62,0	—	dB
	$f_N-91,00$... $f_N-85,00$ MHz	58,0	62,0	—	dB
	$f_N-76,00$... $f_N-68,00$ MHz	56,0	60,0	—	dB
	$f_N-88,00$ MHz	58,0	62,0	—	dB
	$f_N-72,00$ MHz	56,0	60,0	—	dB
	$f_N-44,00$ MHz	46,0	54,0	—	dB
	$f_N-36,00$ MHz	42,0	44,0	—	dB
	$f_N+70,00$... 2000,00 MHz	56,0	62,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$				
	1216,00 ... 1224,00 MHz	—	15	—	ns


Transfer function

Transfer function (passband)




Transfer function (wideband)



SAW Components**B1610****Low-Loss Filter****1220,00 MHz**

Data Sheet

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