EPCOS

SAW Components

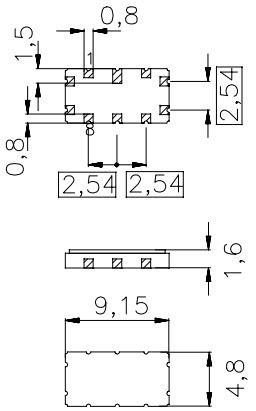
Data Sheet B594

Data Sheet

SMD package **QCC10B**

Features

- High performance IF bandpass filter
- Hermetically sealed SMD package
- Constant group delay



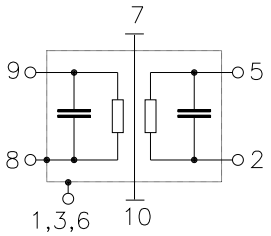
Dimensions in mm

Terminals

- Ni, gold-plated

Pin configuration

9	Input
8	Input – ground, connected to case
5	Output
2	Output – ground
1, 3, 6	Case – ground
7, 10	Barriere – ground
4	Not connected



Type	Ordering code	Marking and Package according to	Packing according to
B594	B39401-B594-Z710	C61157-A7-A47	F61074-V8025-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	10	dBm	source impedance 50 Ω

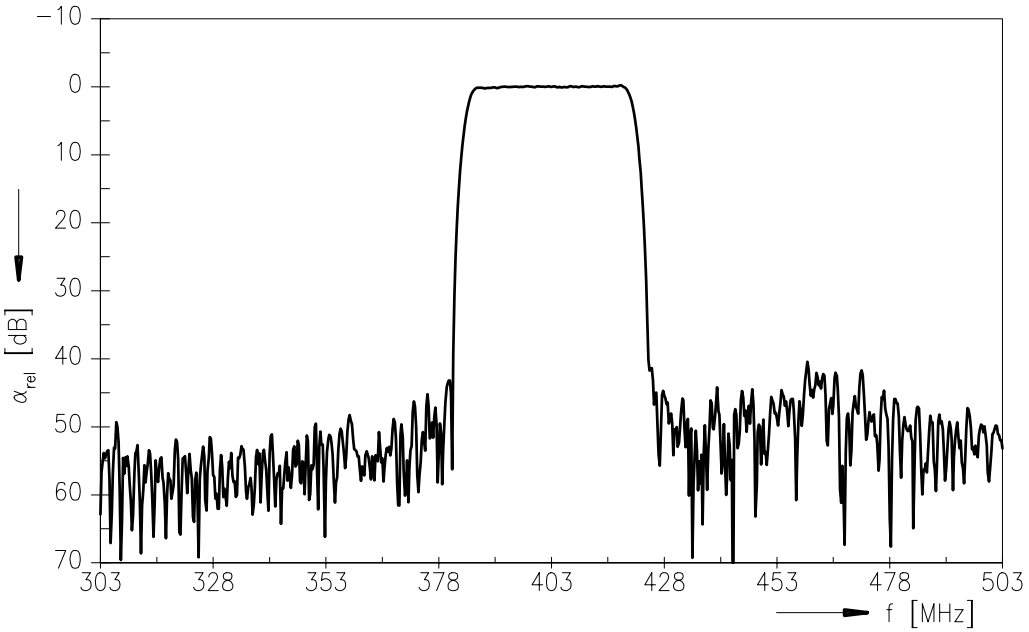
Data Sheet

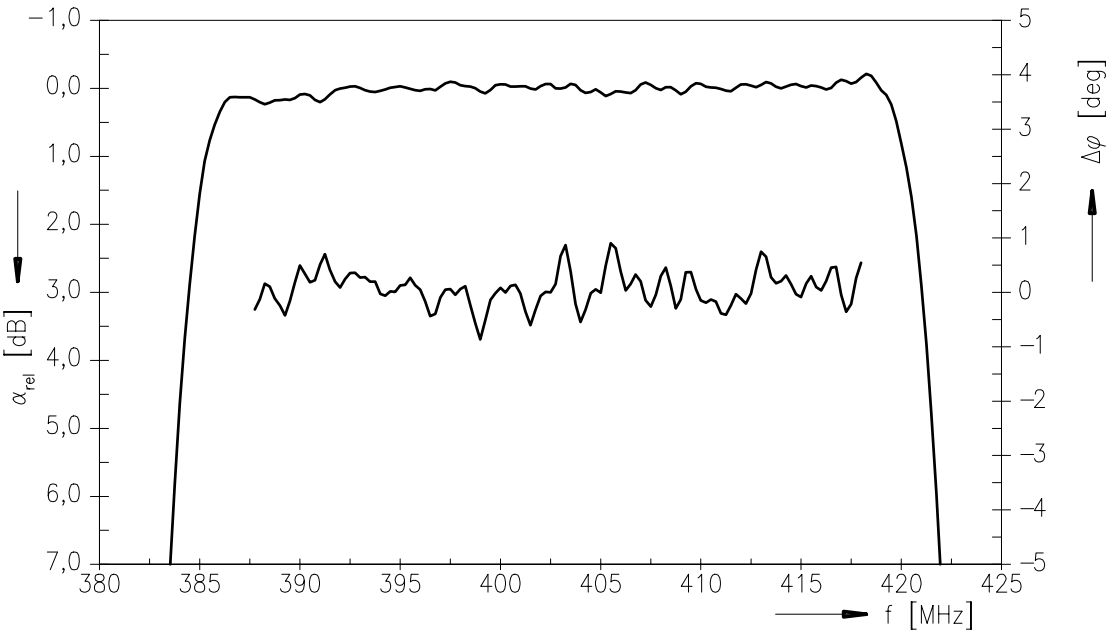
Characteristics

Operating temperature: T = 25 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency (center frequency between 6 dB points)	f_C	401,76	402,76	403,76	MHz
Insertion attenuation at f_C	α_C	—	22,0	23,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
387,51 … 418,01 MHz		—	0,8	1,0	dB
Amplitude ripple (p-p; Sliding interval 1 MHz)	$\Delta\alpha$				
387,51 … 418,01 MHz		—	0,18	0,3	dB
Phase ripple (p-p)	$\Delta\alpha$				
387,51 … 418,01 MHz		—	1,5	3,0	°
Relative attenuation (relative to α_C)	α_{rel}				
1,00 … 303,00 MHz		—	25,0	—	dB
303,00 … 378,26 MHz		40,0	45,0	—	dB
427,26 … 503,00 MHz		38,0	41,0	—	dB
503,00 …1000,00 MHz		—	25,0	—	dB
Group delay at f_C	τ_C	—	0,41	—	µs
Temperature coefficient of frequency	TC_f	—	-87	—	ppm/K

Frequency response





Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC IS
P.O. Box 80 17 09, D-81617 München

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.
Terms of delivery and rights to change design reserved.

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.