



SAW Components

Data Sheet B4067





SAW Components	B4067
Low-Loss Filter	810,0 MHz

Data Sheet

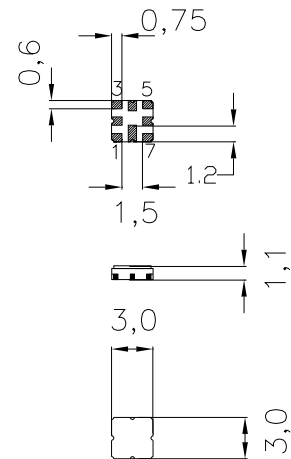
SMD ceramic package **QCC8D**

Features

- Low loss IF filter for HiperLAN
- Balanced to balanced operation
- Package for **Surface Mounted Technology (SMT)**

Terminals

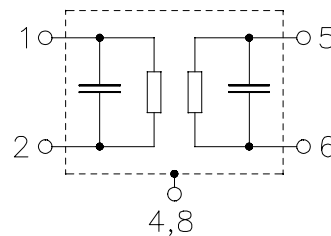
- Ni, gold-plated



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
B4067	B39811-B4067-U810	C61157-A7-A72	F61074-V8101-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 impedance 200 Ω



SAW Components

B4067

Low-Loss Filter

810,0 MHz

Data Sheet

Characteristics

Operating temperature range: $T_A = 0 \dots +70 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 200 \text{ } \Omega$
 Terminating load impedance: $Z_L = 200 \text{ } \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	810,0	—	MHz
Minimum insertion attenuation	α_{\min}	—	1,7	4,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
	$f_N \pm 8,0 \text{ MHz}$	—	0,6	1,0	dB
	$f_N \pm 8,5 \text{ MHz}$	—	0,7	1,2	dB
Group delay ripple (p-p)	$\Delta\tau$				
	$f_N \pm 8,5 \text{ MHz}$	—	25	75	ns
Relative attenuation (relative to α_{\min})	α_{rel}				
	$f_N - 20,0 \text{ MHz}$	15,5	36	—	dB
	$f_N + 20,0 \text{ MHz}$	15,5	24	—	dB
	$f_N - 40,0 \text{ MHz}$	23	54	—	dB
	$f_N + 40,0 \text{ MHz}$	23	48	—	dB
	$f_N - 500 \text{ MHz} \dots f_N - 50,0 \text{ MHz}$	45	54	—	dB
	$f_N + 50,0 \text{ MHz} \dots f_N + 500 \text{ MHz}$	45	58	—	dB
Reflected wave signal suppression					
	450 ns after main pulse	46,0	48,0	—	dB



SAW Components

B4067

Low-Loss Filter

810,0 MHz

Data Sheet

Characteristics (2 filters cascaded)

Operating temperature range: $T_A = 0 \dots +70 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 200 \text{ } \Omega$
 Terminating load impedance: $Z_L = 200 \text{ } \Omega$

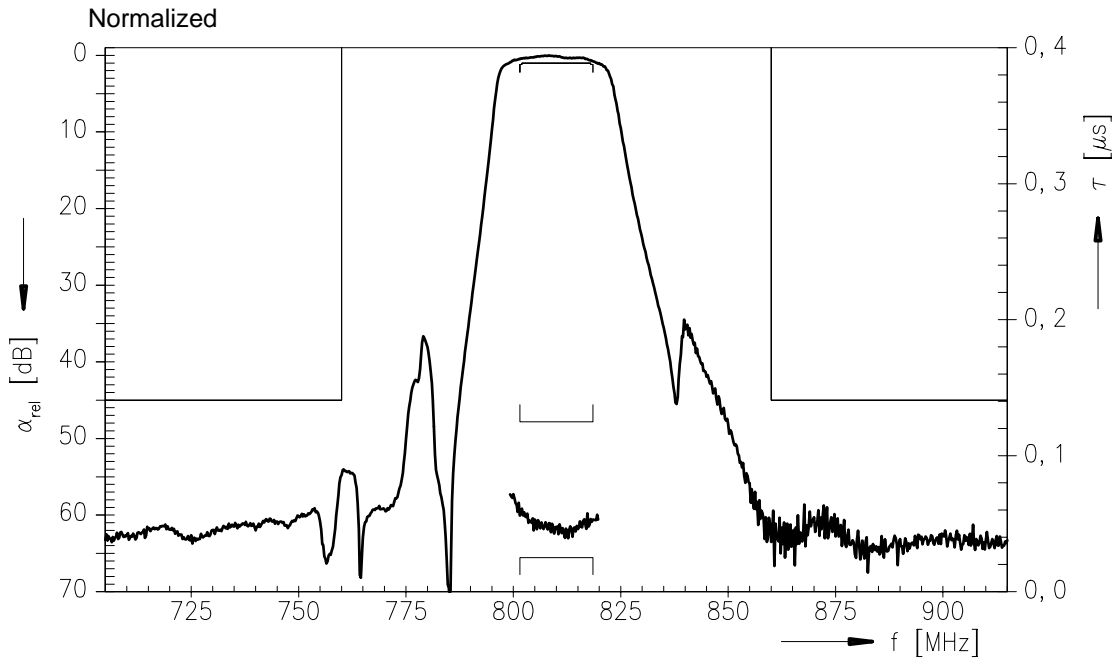
		min.	typ.	max.	
Nominal frequency	f_N	—	810,0	—	MHz
Minimum insertion attenuation	α_{\min}	—	3,4	8,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
	$f_N \pm 8,0 \text{ MHz}$	—	1,2	2,0	dB
	$f_N \pm 8,5 \text{ MHz}$	—	1,8	2,4	dB
Group delay ripple (p-p)	$\Delta\tau$				
	$f_N \pm 8,5 \text{ MHz}$	—	50	150	ns
Relative attenuation (relative to α_{\min})	α_{rel}				
	$f_N - 20,0 \text{ MHz}$	31	60	—	dB
	$f_N + 20,0 \text{ MHz}$	31	48	—	dB
	$f_N - 40,0 \text{ MHz}$	46	108 *)	—	dB
	$f_N + 40,0 \text{ MHz}$	46	96 *)	—	dB
	$f_N - 500 \text{ MHz} \dots f_N - 50,0 \text{ MHz}$	90	108 *)	—	dB
	$f_N + 50,0 \text{ MHz} \dots f_N + 500 \text{ MHz}$	90	116 *)	—	dB
Reflected wave signal suppression					
	900 ns after main pulse	46,0	48,0	—	dB

*) value depends on pcb layout

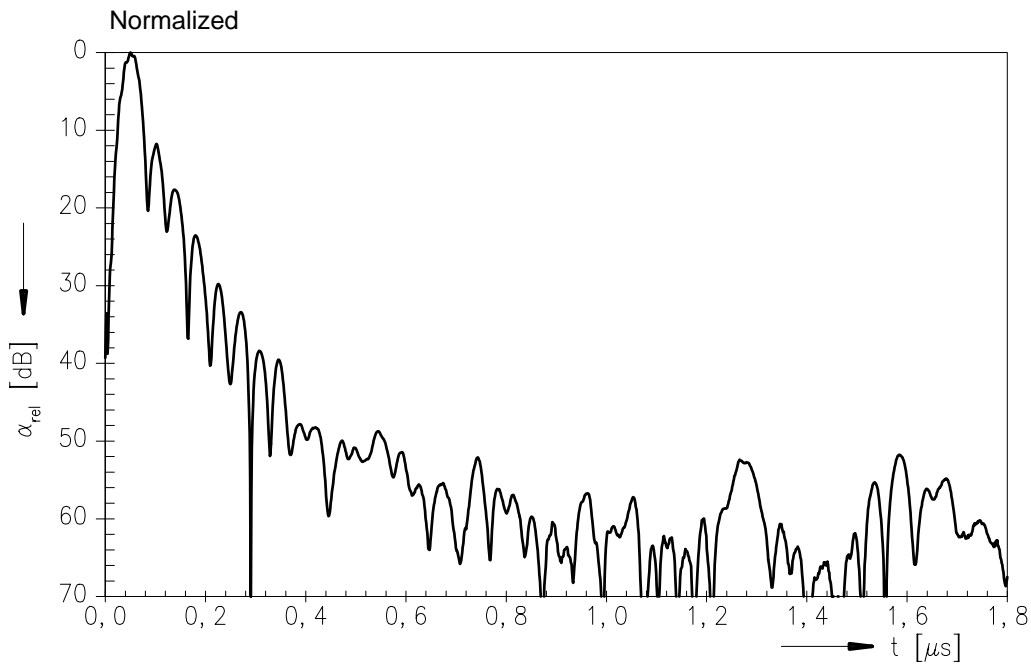


Data Sheet

Transfer function (single filter)



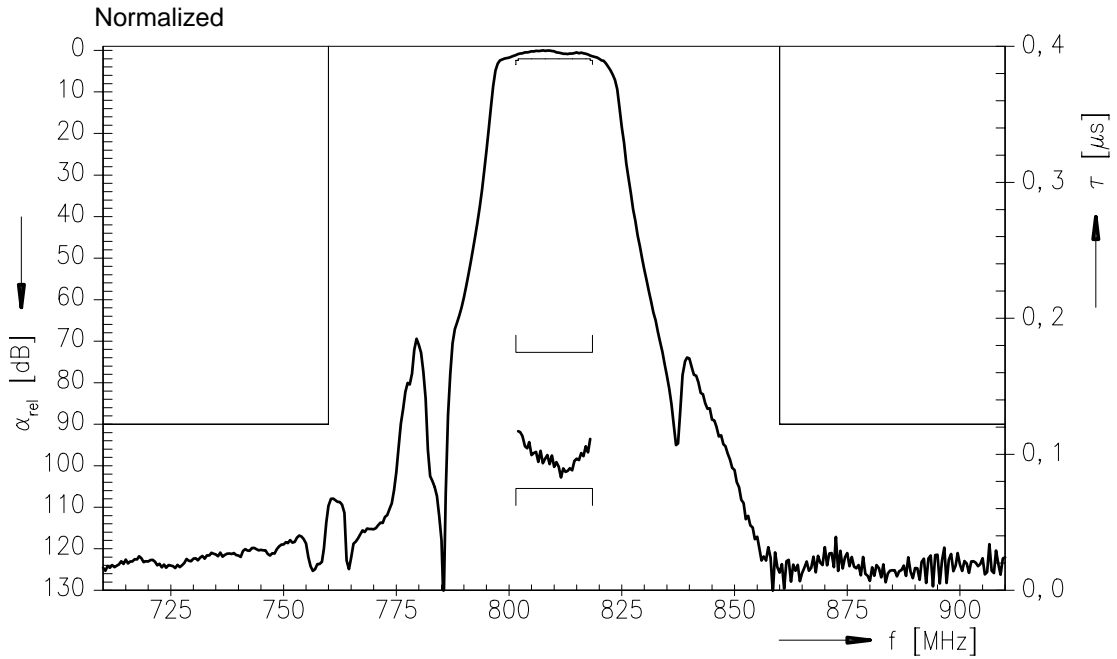
Impulse response (single filter)



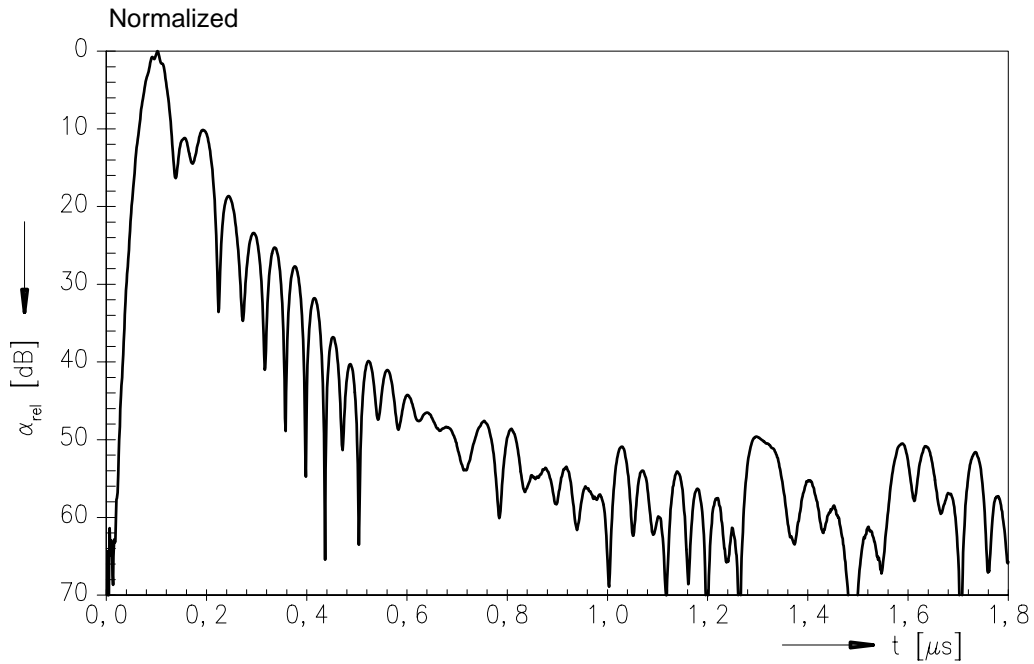


Data Sheet

Transfer function (2 cascaded filters)



Impulse response (2 cascaded filters)





SAW Components

B4067

Low-Loss Filter

810,0 MHz

Data Sheet

Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC WT

P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2002. All Rights Reserved. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. 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.