



# SAW Components

Data Sheet B4065





**SAW Components**

**B4065**

**Low-Loss Filter**

**940,0 MHz**

**Data Sheet**

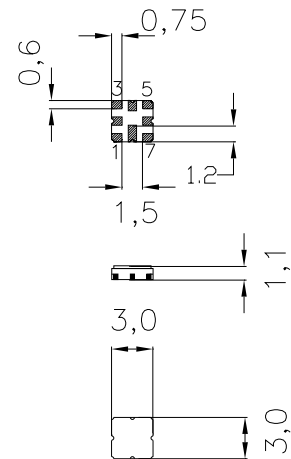
SMD ceramic package **QCC8D**

**Features**

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

**Terminals**

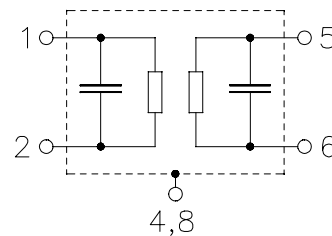
- Ni, gold-plated



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
B4065	B39941-B4065-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 $\Omega$


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**Characteristics**

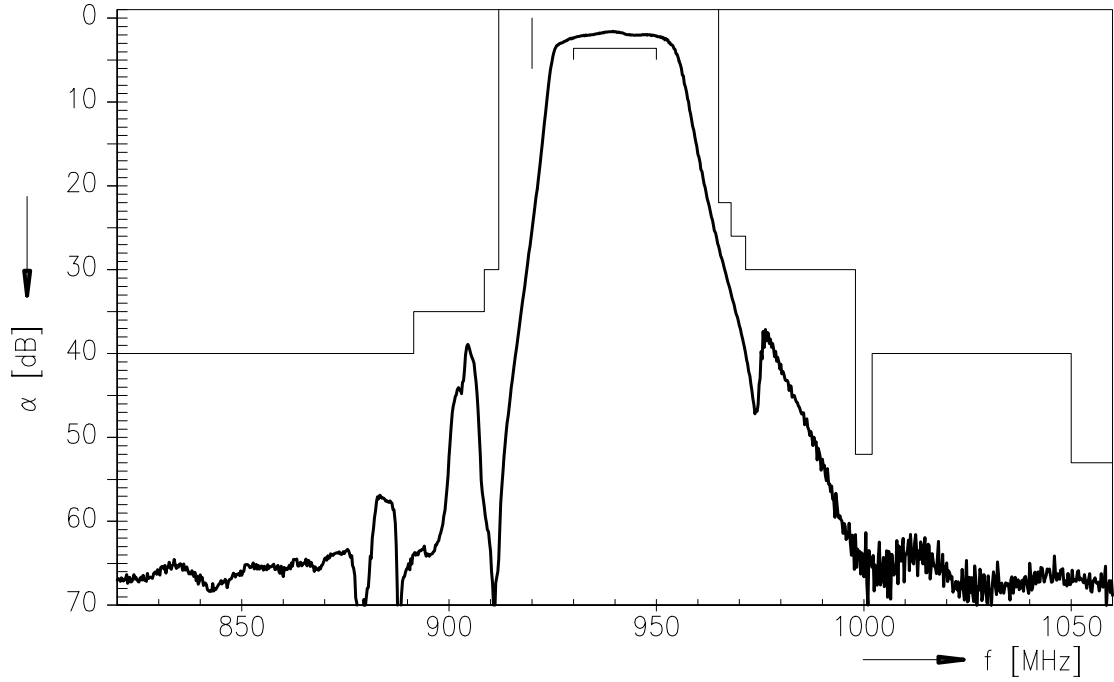
Operating temperature range:  $T_A = -20 \dots +85 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 200 \ \Omega$   
 Terminating load impedance:  $Z_L = 200 \ \Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	940,0	—	MHz
<b>Minimum insertion attenuation</b>	$\alpha_{\min}$ $f_N \pm 10,0 \text{ MHz}$	—	2,5	3,0	dB
<b>Amplitude ripple in passband (p-p)</b>	$\Delta\alpha$ $f_N \pm 10,0 \text{ MHz}$	—	0,7	1,3	dB
<b>Passband width</b>					
$\alpha_{\text{rel}} \leq 1,0 \text{ dB}$	$B_{1,0\text{dB}}$	—	24,5	—	MHz
$\alpha_{\text{rel}} \leq 3,0 \text{ dB}$	$B_{3,0\text{dB}}$	—	30	—	MHz
<b>Group delay ripple (p-p)</b>	$\Delta\tau$ $f_N \pm 10,0 \text{ MHz}$	—	25	50	ns
<b>Input/Output VSWR (<math>f_N \pm 10 \text{ MHz}</math>)</b>		—	1,7	2,0	
<b>Relative attenuation (relative to <math>\alpha_{\min}</math>)</b>	$\alpha_{\text{rel}}$				
$f_N - 820 \text{ MHz} \dots f_N - 640,0 \text{ MHz}$		20	70	—	dB
$f_N - 640 \text{ MHz} \dots f_N - 240 \text{ MHz}$		23	60	—	dB
$f_N - 240 \text{ MHz} \dots f_N - 48,5 \text{ MHz}$		40	50	—	dB
$f_N - 48,5 \text{ MHz} \dots f_N - 31,5 \text{ MHz}$		34	36	—	dB
$f_N - 31,5 \text{ MHz} \dots f_N - 28 \text{ MHz}$		30	40	—	dB
$f_N - 20,0 \text{ MHz}$		6	20	—	dB
$f_N + 25 \text{ MHz} \dots f_N + 28 \text{ MHz}$		17	24	—	dB
$f_N + 28 \text{ MHz} \dots f_N + 31,5 \text{ MHz}$		24	31	—	dB
$f_N + 31,5 \text{ MHz} \dots f_N + 58 \text{ MHz}$		30	36	—	dB
$f_N + 58 \text{ MHz} \dots f_N + 62 \text{ MHz}$		52	55	—	dB
$f_N + 62 \text{ MHz} \dots f_N + 110 \text{ MHz}$		40	55	—	dB
$f_N + 110 \text{ MHz} \dots f_N + 130 \text{ MHz}$		53	60	—	dB
$f_N + 130 \text{ MHz} \dots f_N + 2160 \text{ MHz}$		35	45	—	dB
$f_N + 2160 \text{ MHz} \dots f_N + 4260 \text{ MHz}$		15	25	—	dB
<b>Input IP3</b>	$f_N \pm 10,0 \text{ MHz}$	20	—	—	dBm
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-36	—	ppm/K

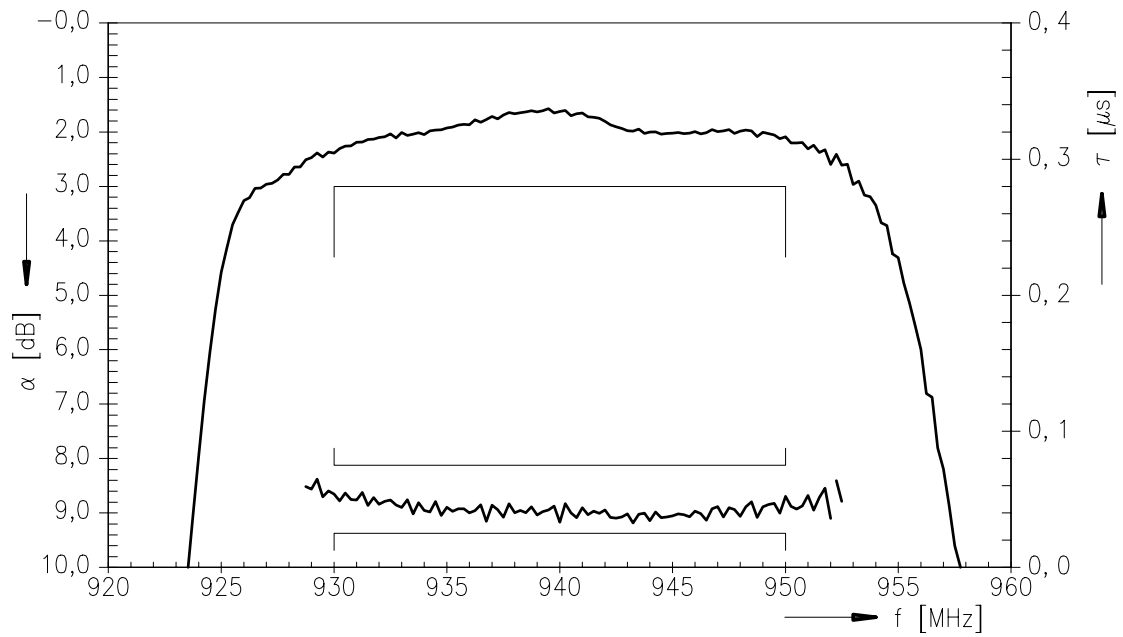


Data Sheet

Transfer Function (Narrowband)



Transfer Function (Passband)





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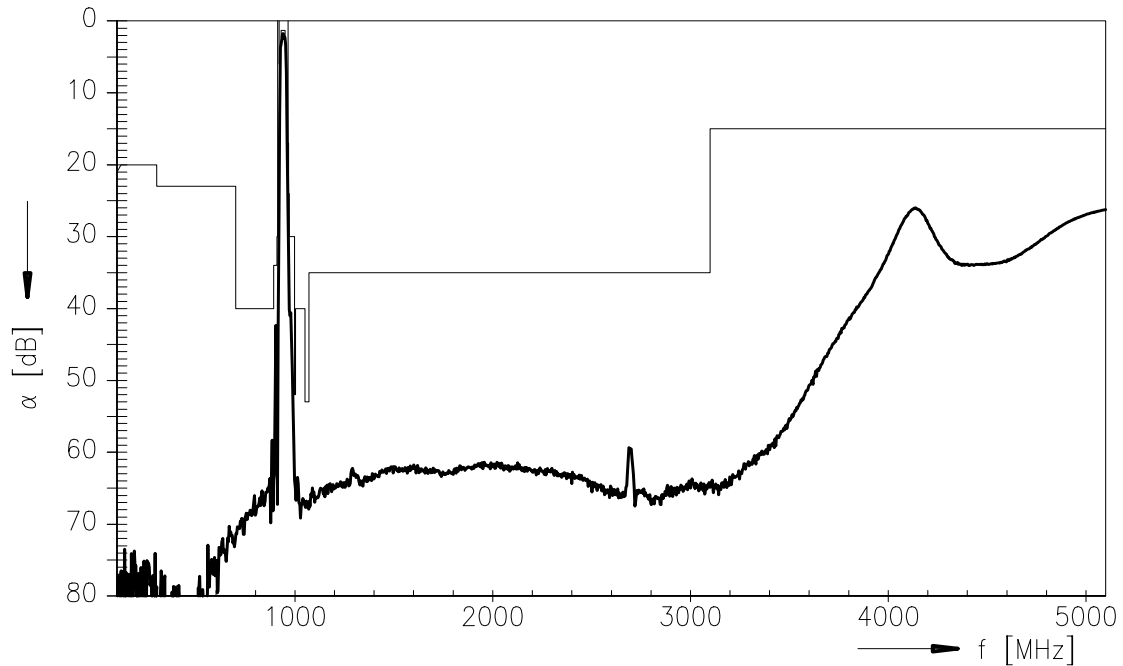
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Transfer Function (Wideband)



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