



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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SAW Components

Data Sheet B4065

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a curved, metallic-looking structure. The background is dark and textured, suggesting a globe or a complex circuit board layout.



SAW Components

B4065

Low-Loss Filter

940,0 MHz

Data Sheet

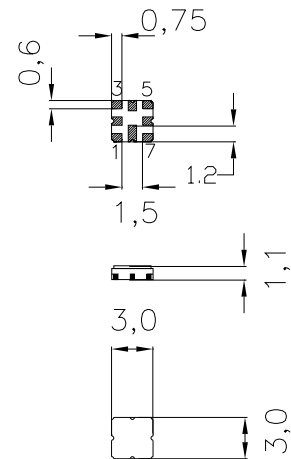
SMD ceramic package **QCC8D**

Features

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

Terminals

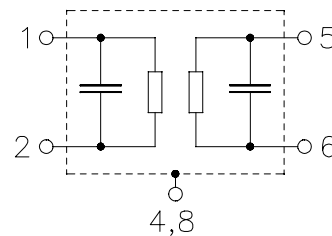
- Ni, gold-plated



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 Ω


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Characteristics

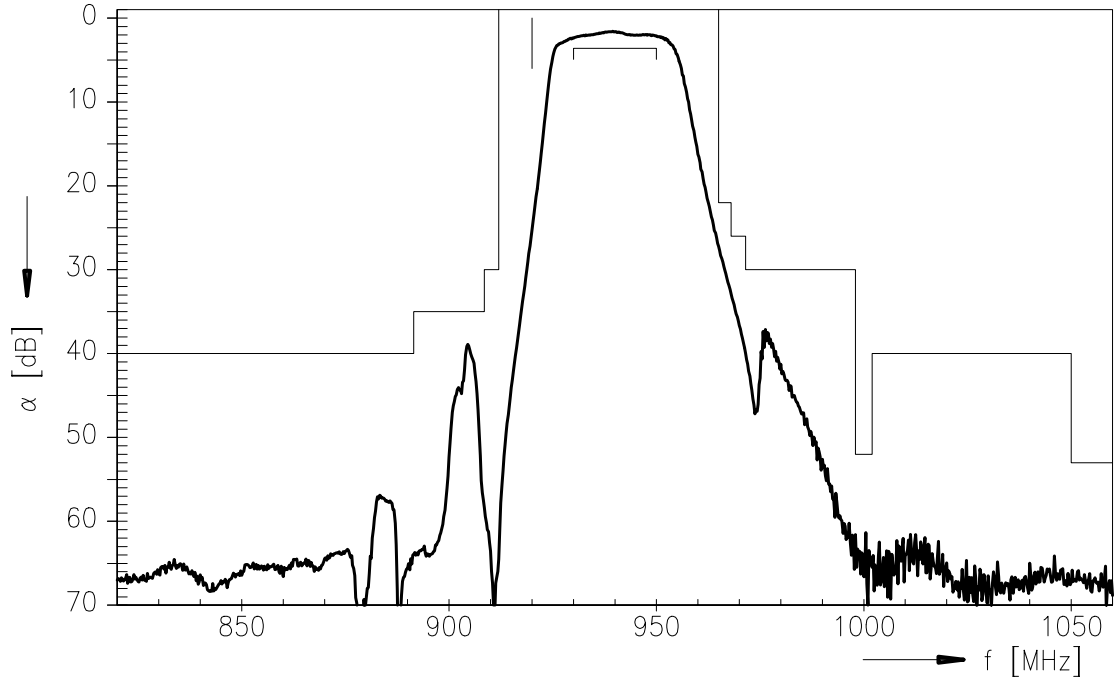
Operating temperature range: $T_A = -20 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 200 \text{ } \Omega$
 Terminating load impedance: $Z_L = 200 \text{ } \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	940,0	—	MHz
Minimum insertion attenuation	α_{\min} $f_N \pm 10,0 \text{ MHz}$	—	2,5	3,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$ $f_N \pm 10,0 \text{ MHz}$	—	0,7	1,3	dB
Passband width					
$\alpha_{\text{rel}} \leq 1,0 \text{ dB}$	$B_{1,0\text{dB}}$	—	24,5	—	MHz
$\alpha_{\text{rel}} \leq 3,0 \text{ dB}$	$B_{3,0\text{dB}}$	—	30	—	MHz
Group delay ripple (p-p)	$\Delta\tau$ $f_N \pm 10,0 \text{ MHz}$	—	25	50	ns
Input/Output VSWR ($f_N \pm 10 \text{ MHz}$)		—	1,7	2,0	
Relative attenuation (relative to α_{\min})	α_{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
Input IP3	$f_N \pm 10,0 \text{ MHz}$	20	—	—	dBm
Temperature coefficient of frequency	TC_f	—	-36	—	ppm/K

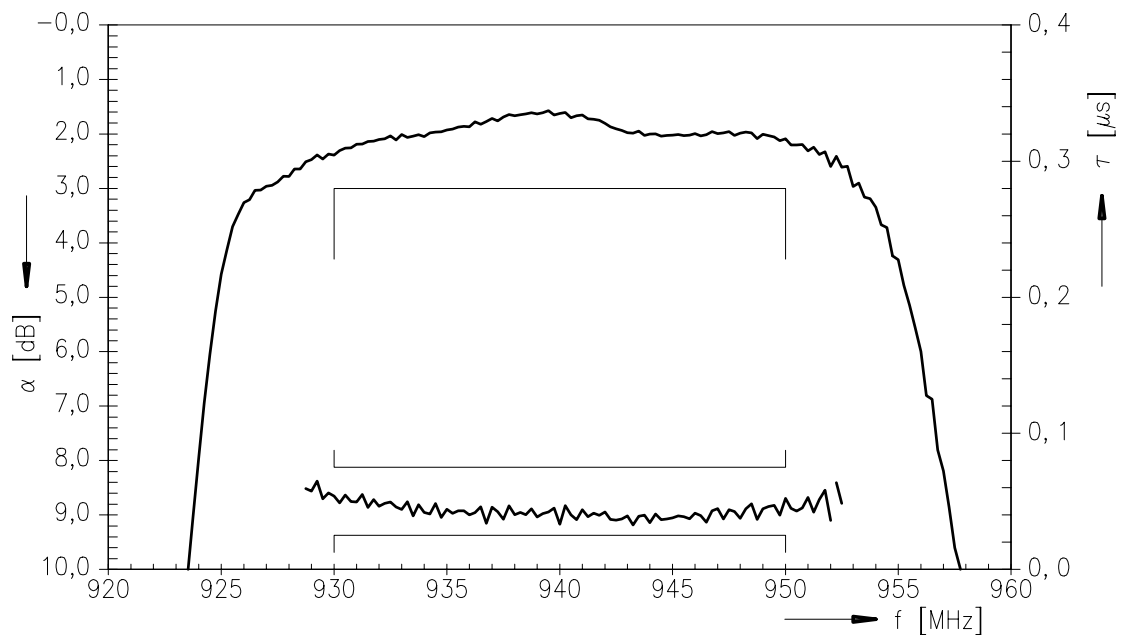


Data Sheet

Transfer Function (Narrowband)



Transfer Function (Passband)





SAW Components

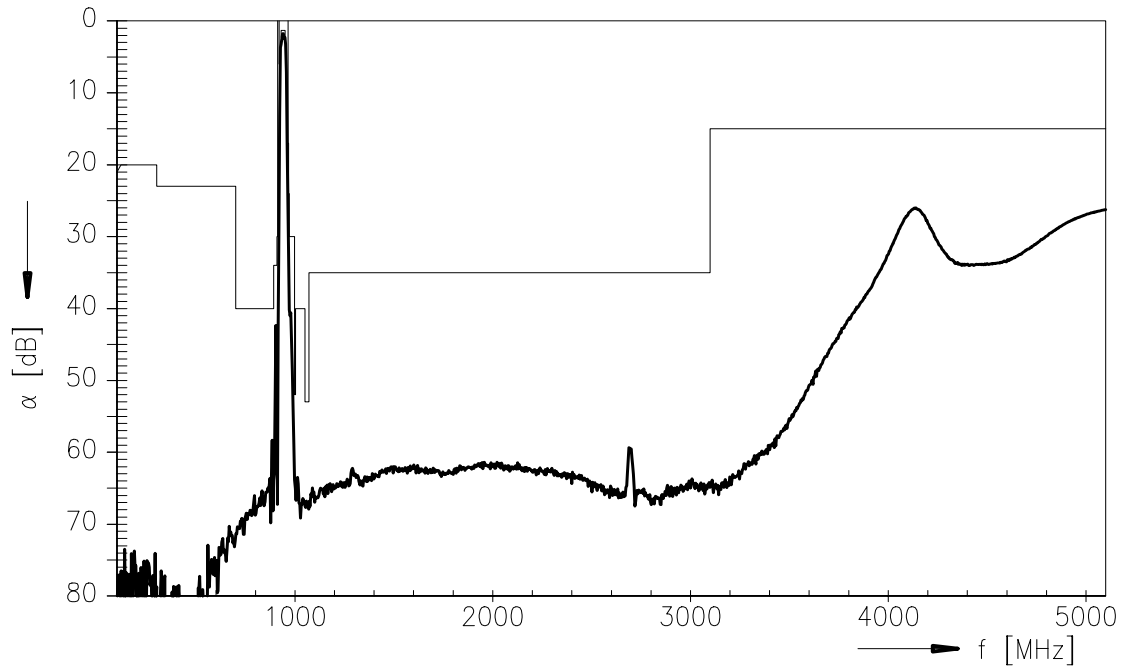
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Transfer Function (Wideband)



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