

SAW Components

Data Sheet B4065





SAW Components	B4065
Low-Loss Filter	940,0 MHz

Data Sheet

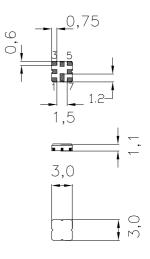
SMD ceramic package QCC8D

Features

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

Terminals

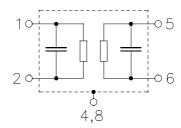
Ni, gold-plated



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



Туре	Ordering code	Marking and Package	Packing
		according to	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	$T_{ m stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	0	dBm	source impedance 200 Ω



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Characteristics

Operating temperature range:

 $T_{A} = -20 \dots +85 \,^{\circ} \text{C}$ $Z_{S} = 200 \,\Omega$ $Z_{L} = 200 \,\Omega$ Terminating source impedance: Terminating load impedance:

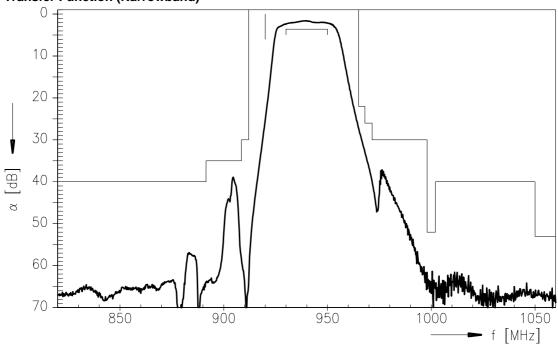
		min.	typ.	max.	
Nominal frequency	f _N	_	940,0	_	MHz
Minimum insertion attenuation $f_{\rm N} \pm 10,0~{\rm MHz}$	α _{min} z	_	2,5	3,0	dB
Amplitude ripple in passband (p-p) $f_{N}\pm 10,0~\text{MHz}$	Δα	_	0,7	1,3	dB
Passband width					
$lpha_{rel} \leq$ 1,0 dB $lpha_{rel} \leq$ 3,0 dB	$B_{1,0dB}$ $B_{3,0dB}$	— —	24,5 30	_ _	MHz MHz
Group delay ripple (p-p) $f_{\rm N} \pm 10,0 \; {\rm MHz} \label{eq:fN}$	Δτ	_	25	50	ns
Input/Output VSWR ($f_{\rm N} \pm 10~{\rm MHz}$)		_	1,7	2,0	
Relative attenuation (relative to α_{min})	$lpha_{rel}$				
$f_{N} - 820 \text{MHz} \dots f_{N} - 640,0 \text{MHz}$		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
$f_{\rm N}$ – 48,5 MHz $f_{\rm N}$ – 31,5 MHz		34	36	_	dB
$f_{N} - 31,5 \text{MHz} \dots f_{N} - 28 \text{MHz}$		30	40	_	dB
$f_{\rm N}$ – 20,0 MHz		6	20	_	dB
$f_{N} + 25 \text{MHz} \dots f_{N} + 28 \text{MHz}$		17	24		dB
$f_{N} + 28 \text{MHz} f_{N} + 31,5 \text{MHz}$		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
$f_{N} + 62 \text{MHz} f_{N} + 110 \text{MHz}$		40	55	_	dB
$f_{N} + 110 \text{ MHz} f_{N} + 130 \text{ MHz}$		53	60	_	dB
$f_{N} + 130 \text{MHz} \dots f_{N} + 2160 \text{MHz}$		35	45	_	dB
$f_{\rm N} + 2160 \rm MHz \dots f_{\rm N} + 4260 \rm MHz$		15	25	_	dB
Input IP3 $f_{\rm N} \pm 10,0 \; {\rm MHz}$		20	_	_	dBm
Temperature coefficient of frequency	TC _f	_	– 36		ppm/K



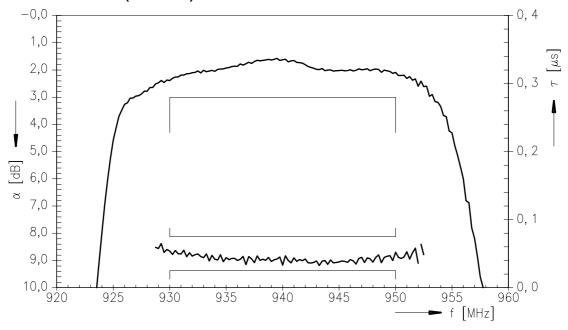
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Transfer Function (Narrowband)



Transfer Function (Passband)

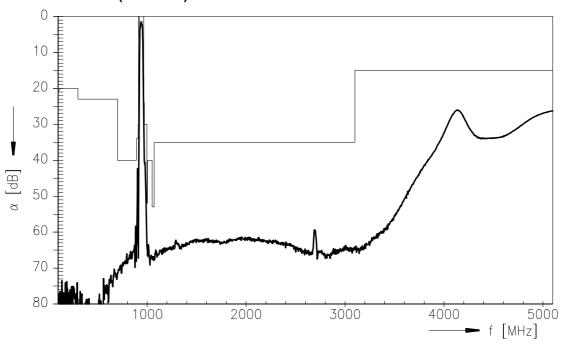




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Transfer Function (Wideband)



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