

SAW Components

Data Sheet B3671





SAW Components	B3671
Low-Loss Filter	204,0 MHz

Data Sheet

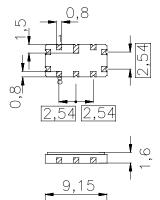
Features

- Low-loss IF filter for S-CDMA applications
- 500 kHz usable bandwidth
- Temperature stable
- Ceramic SMD package

Terminals

■ Gold plated

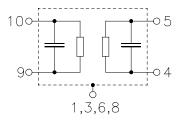
Ceramic package QCC10B



Dimensions in mm, approx. weight 0,2 g

Pin configuration

10	Input
9	Input ground
5	Output
4	Output ground
2, 7	Ground
1, 3, 6, 8	Case ground



Туре	Ordering code	Marking and Package according to	Packing according to		
B3671	B39201-B3671-Z710	C61157-A7-A49	F61074-V8035-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-40 / +80	°C
Storage temperature range	$T_{ m stg}$	-40 / +85	°C
DC voltage	$V_{\rm DC}$	0	V
Source power	$P_{\rm s}$	0	dBm



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Characteristics

Operating temperature range:

T = 0 ... 70 $^{\circ}$ C $Z_{\rm S}$ = 50 Ω and matching network $Z_{\rm L}$ = 50 Ω and matching network Terminating source impedance: Terminating load impedance:

	min.	typ.	max.	
f_{N}	_	204,0	_	MHz
α_{min}	_	9,0	10,0	dB
B_{1dB}	_	720	_	kHz
B_{3dB}	_	1150	_	kHz
$\Delta \alpha$				
	_	0,5	1,0	dB
τ				
	_	0,8	_	μs
Δau				
	_	30	100	ns
α_{rel}				
	45	50	_	dB
	44	46	_	dB
	45	50	_	dB
	44	46	_	dB
	45	50	_	dB
	43	45	_	dB
	45	50	_	dB
TC _f	_	-0,036	_	ppm/K ²
T_0	_	35	_	°C
	$lpha_{ m min}$ $B_{ m 1dB}$ $B_{ m 3dB}$ \Deltalpha $ au$	f _N — α _{min} — B _{1dB} — B _{3dB} — Δα — τ — Δτ — α _{rel} 45 44 45 44 45 43 45 TC _f —	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

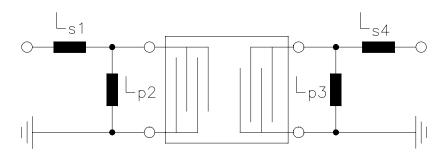
¹⁾ Temperature dependance of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



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Matching network to 50 Ω (Element values depend on PCB layout)



 $L_{s1} = 120 \text{ nH}$

 $L_{p2} = 120 \text{ nH}$

 $L_{p3} = 150 \text{ nH}$

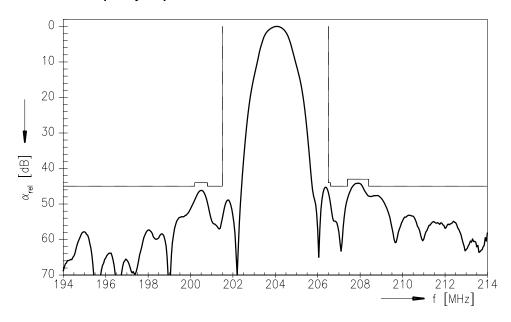
 $L_{s4} = 100 \text{ nH}$



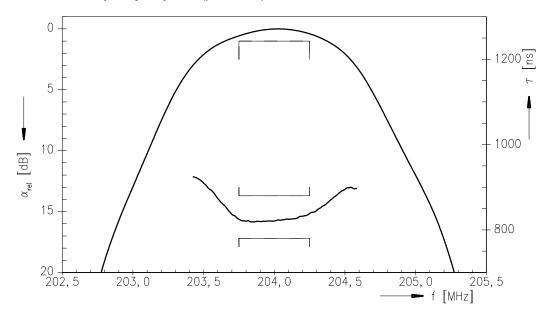
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Normalized frequency response



Normalized frequency response (pass band)





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