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# SAW Components

Data Sheet B3671

Data Sheet

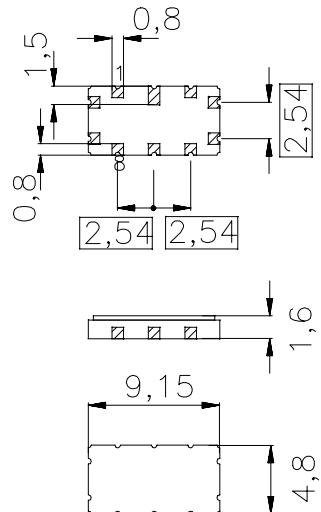


**SAW Components****B3671****Low-Loss Filter****204,0 MHz****Data Sheet****Features**

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

**Terminals**

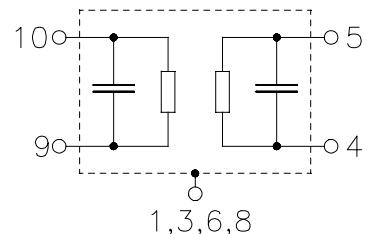
- Gold plated

**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



Type	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	$T_{stg}$	-40 / +85	°C	
DC voltage	$V_{DC}$	0	V	
Source power	$P_s$	0	dBm	

**SAW Components****B3671****Low-Loss Filter****204,0 MHz****Data Sheet****Characteristics**

Operating temperature range:

 $T = 0 \dots 70^\circ\text{C}$ 

Terminating source impedance:

 $Z_S = 50 \Omega$  and matching network

Terminating load impedance:

 $Z_L = 50 \Omega$  and matching network

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Nominal frequency</b>	$f_N$	—	204,0	—	MHz
<b>Minimum insertion attenuation</b>	$\alpha_{\min}$	—	9,0	10,0	dB
<b>Pass bandwidth</b>					
$\alpha_{\text{rel}} \leq 1,0 \text{ dB}$	$B_{1\text{dB}}$	—	720	—	kHz
$\alpha_{\text{rel}} \leq 3,0 \text{ dB}$	$B_{3\text{dB}}$	—	1150	—	kHz
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	0,5	1,0	dB
	$f_N \pm 250 \text{ kHz}$				
<b>Absolute group delay</b>	$\tau$	—	0,8	—	$\mu\text{s}$
	@ $f_N$				
<b>Group delay ripple (p-p)</b>	$\Delta\tau$	—	30	100	ns
	$f_N \pm 250 \text{ kHz}$				
<b>Relative attenuation (relative to <math>\alpha_{\min}</math>)</b>	$\alpha_{\text{rel}}$				
$f_N - 10,0 \text{ MHz} \dots f_N - 3,8 \text{ MHz}$		45	50	—	dB
$f_N - 3,8 \text{ MHz} \dots f_N - 3,2 \text{ MHz}$		44	46	—	dB
$f_N - 3,2 \text{ MHz} \dots f_N - 2,5 \text{ MHz}$		45	50	—	dB
$f_N + 2,5 \text{ MHz} \dots f_N + 2,6 \text{ MHz}$		44	46	—	dB
$f_N + 2,6 \text{ MHz} \dots f_N + 3,5 \text{ MHz}$		45	50	—	dB
$f_N + 3,5 \text{ MHz} \dots f_N + 4,5 \text{ MHz}$		43	45	—	dB
$f_N + 4,5 \text{ MHz} \dots f_N + 10,0 \text{ MHz}$		45	50	—	dB
<b>Temperature coefficient of frequency <sup>1)</sup></b>	$TC_f$	—	-0,036	—	ppm/K <sup>2</sup>
<b>Turnover temperature</b>	$T_0$	—	35	—	°C

<sup>1)</sup> 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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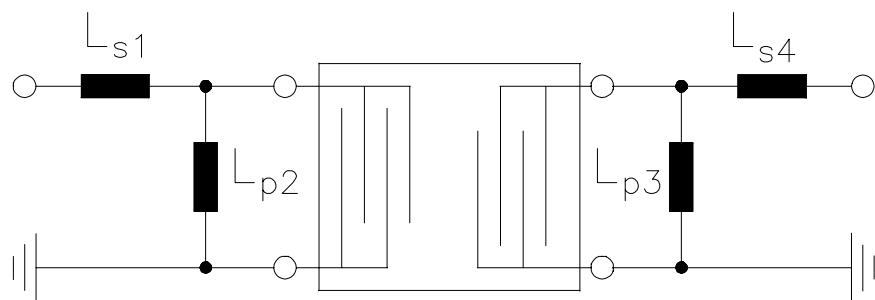
B3671

Low-Loss Filter

204,0 MHz

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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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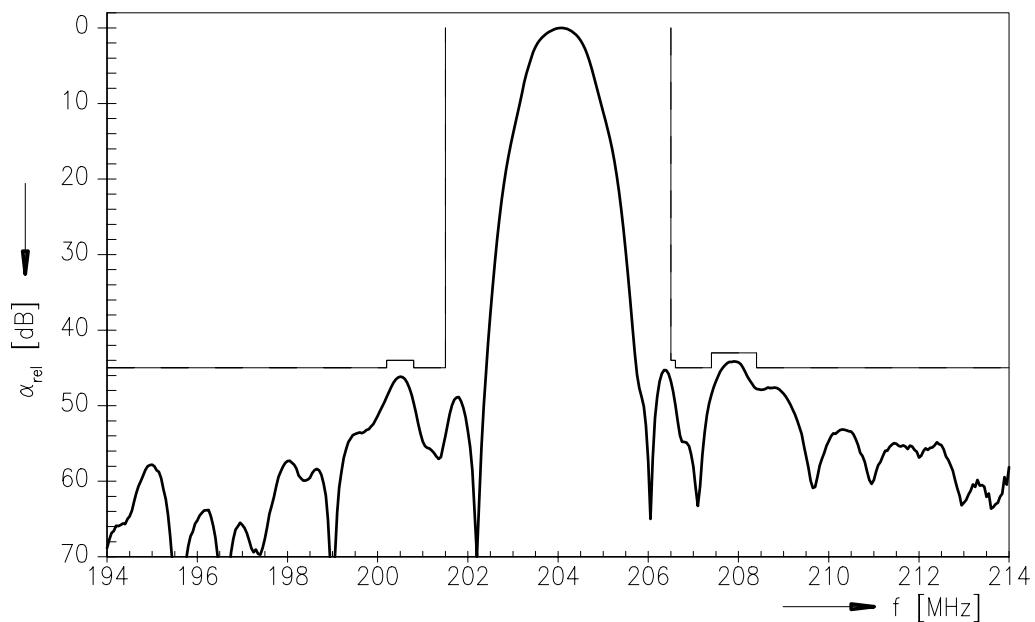
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Low-Loss Filter

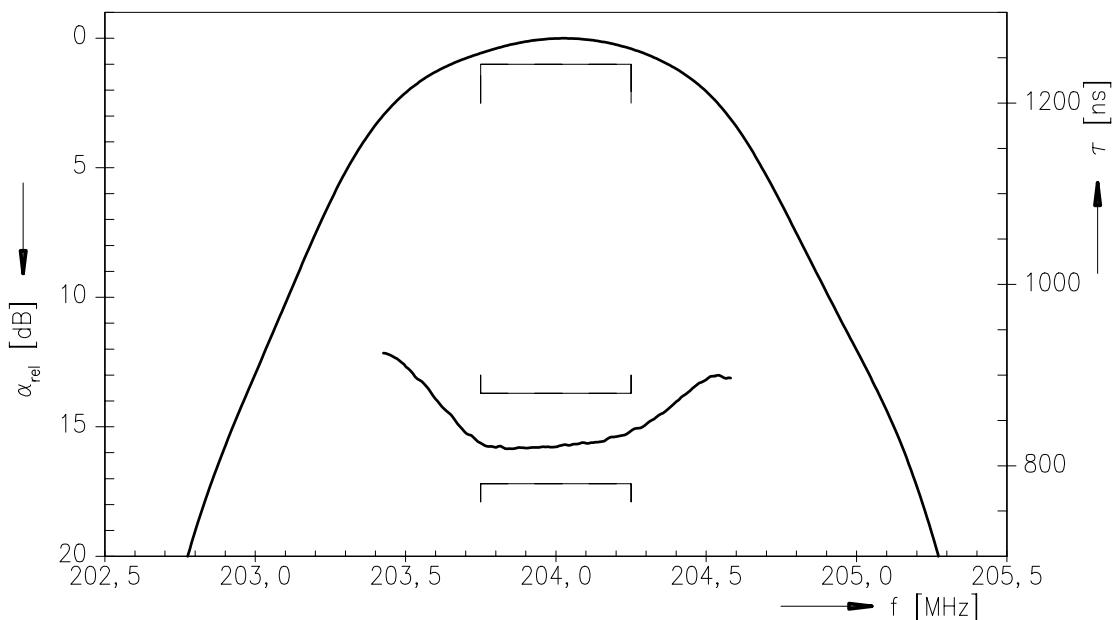
204,0 MHz

Data Sheet

### Normalized frequency response



### Normalized frequency response (pass band)





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<b>Low-Loss Filter</b>	<b>204,0 MHz</b>
<b>Data Sheet</b>	

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