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# SAW Components

Data Sheet B3882

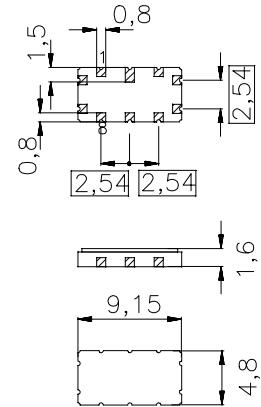


**SAW Components****B3882****Low-Loss Filter****168,96 MHz****Data Sheet**Ceramic package **QCC10B****Features**

- Low-loss filter
- Multichannel CDMA2000 capable
- Balanced or unbalanced operation possible
- Temperature stable
- Hermetically sealed ceramic SMD package

**Terminals**

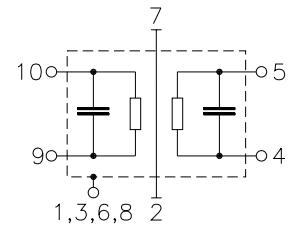
- Gold plated



Dimensions in mm, approx. weight 0,23 g

**Pin configuration**

10	Input
9	Input ground or balanced input
5	Output
4	Output ground or balanced output
2, 7	Ground
1, 3, 6, 8	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B3882	B39171-B3882-Z710	C61157-A7-A49	F61074-V8172-Z000

**Electrostatic Sensitive Device (ESD)****Maximum ratings**

Operable temperature range	$T$	-40/ +85	°C	
Storage temperature range	$T_{stg}$	-40/ +85	°C	
DC voltage	$V_{DC}$	5	V	
Source power	$P_s$	10	dBm	

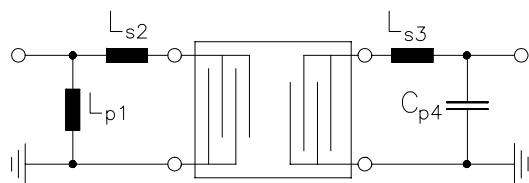
SAW Components		B3882					
Low-Loss Filter		168,96 MHz					
<b>Data Sheet</b>							
<b>Characteristics</b>							
Operating temperature:		$T = 0 \dots +85^\circ\text{C}$					
Terminating source impedance:		$Z_S = 50 \Omega$ single ended and matching network					
Terminating load impedance:		$Z_S = 50 \Omega$ single ended and matching network					
<b>Nominal frequency</b>	$f_N$	min.	typ.	max.			
		—	168,96	—			
<b>Minimum insertion attenuation</b> (including matching network)	$\alpha_{\min}$	—	13,0	14,5			
		—	—	dB			
<b>Passband width</b>							
$\alpha_{\text{rel}} \leq 1 \text{ dB}$	$B_{1\text{dB}}$	—	4,4	—			
$\alpha_{\text{rel}} \leq 5 \text{ dB}$	$B_{5\text{dB}}$	—	4,9	—			
$\alpha_{\text{rel}} \leq 30 \text{ dB}$	$B_{30\text{dB}}$	—	6,1	—			
<b>Amplitude ripple<sup>1)</sup> (p-p)</b>		$\Delta\alpha$					
$f_N \pm 1,92 \text{ MHz}$		—	0,5	0,9			
$f_N \pm k^* 1,25 \text{ MHz} \pm 0,6144 \text{ MHz}$		—	0,4	0,7			
		—	—	dB			
<b>Group delay ripple (p-p)</b>		$\Delta\tau$					
$f_N \pm 1,92 \text{ MHz}$		—	70	120			
		—	ns				
<b>Phase Linearity<sup>1)</sup> (rms)</b>		$\Delta\phi$					
$f_N \pm 1,92 \text{ MHz}$		—	1,0	1,4			
$f_N \pm k^* 1,25 \text{ MHz} \pm 0,6144 \text{ MHz}$		—	1,0	1,4			
		—	—	°			
<b>Average Error Vector Magnitude<sup>1)</sup></b>		$EVM$					
$f_N \pm 1,92 \text{ MHz}$		—	1,9	3,0			
$f_N \pm k^* 1,25 \text{ MHz} \pm 0,6144 \text{ MHz}$		—	1,9	3,0			
		—	—	%			
<b>Relative attenuation</b> (relative to $\alpha_{\min}$ )		$\alpha_{\text{rel}}$					
$f_N \pm 2,5 \text{ MHz} \dots f_N \pm 3,0 \text{ MHz}$		4	5	—			
$f_N \pm 3,0 \text{ MHz} \dots f_N \pm 17,5 \text{ MHz}$		10	20	—			
$f_N \pm 17,5 \text{ MHz} \dots f_N \pm 66,0 \text{ MHz}$		45	50	—			
		—	—	dB			
<b>Temperature coefficient of frequency<sup>2)</sup></b>	$TC_f$	—	-0,036	—			
<b>Turnover temperature</b>	$T_0$	—	35	—			
		—	—	ppm/K <sup>2</sup>			
		—	—	°C			

<sup>1)</sup>Amplitude ripple/Phase Linearity/Average Error Vector Magnitude: where  $k = (-1,0,1)$

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

**Matching network to 50  $\Omega$  single ended input and output:**

(Element values depend upon PCB layout)



$$L_{p1} = 18 \text{ nH}$$

$$L_{s2} = 68 \text{ nH}$$

$$L_{s3} = 120 \text{ nH}$$

$$C_{p4} = 56 \text{ pF}$$

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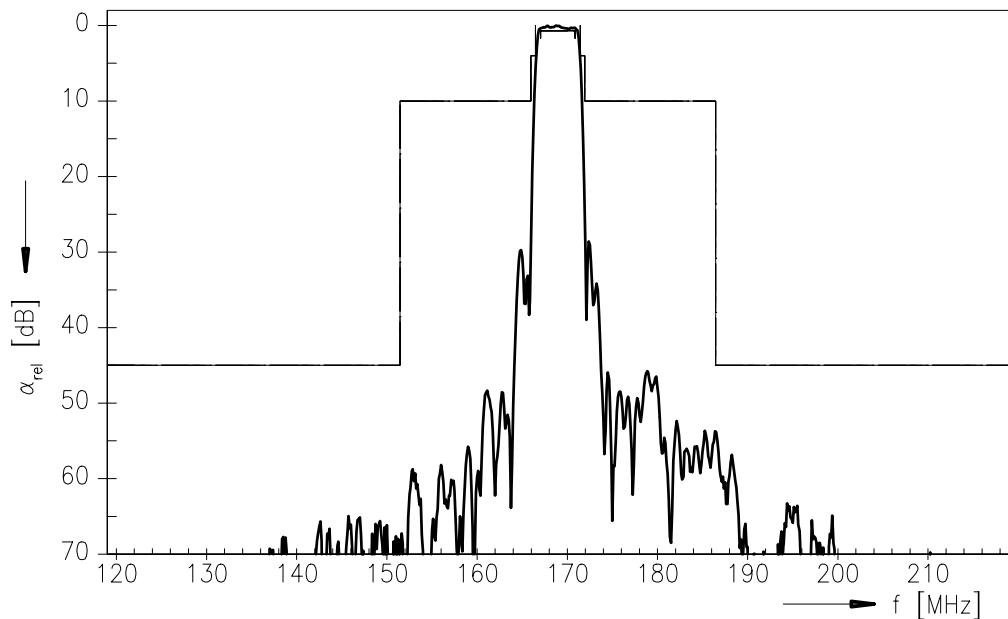
**B3882**

## Low-Loss Filter

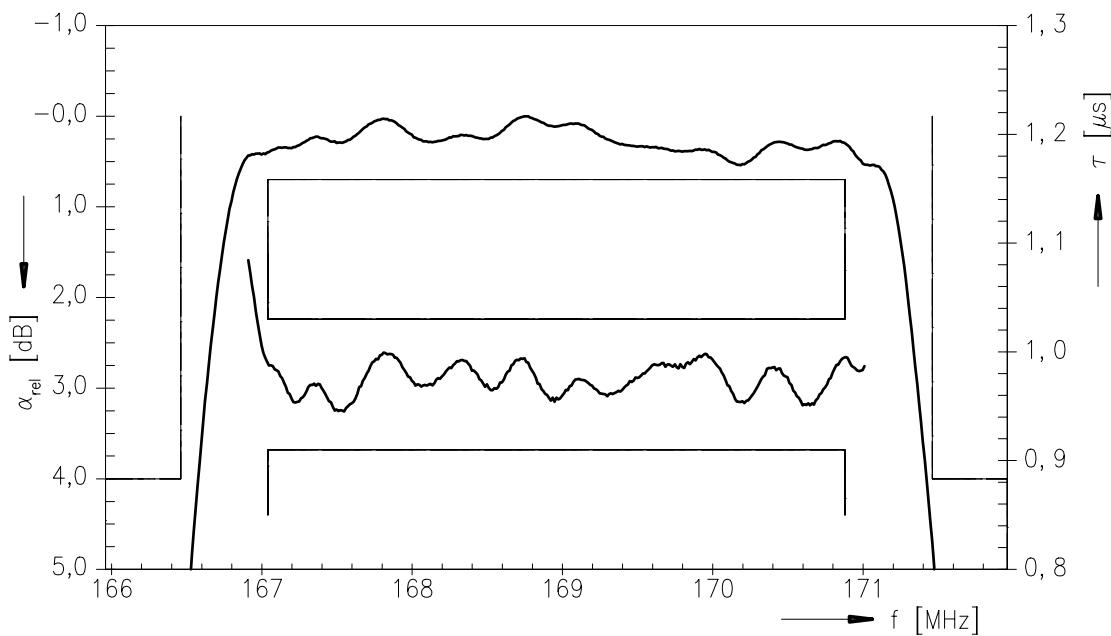
168,96 MHz

## Data Sheet

## Normalized frequency response



## Normalized frequency response (pass band)



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<b>Data Sheet</b>	

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