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# SAW Components

Data Sheet B3855

Data Sheet

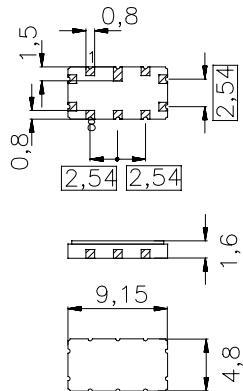
EP

**SAW Components****B3855****Low Loss Filter****169,00 MHz****Data Sheet**Ceramic package **QCC10B****Features**

- IF filter for WCDMA
- Low insertion loss
- Ceramic SMD package

**Terminals**

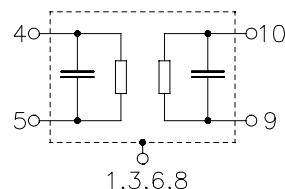
- Gold plated



Dimensions in mm, appr. weight 0,23 g

**Pin configuration**

9, 10	Balanced Input
4, 5	Balanced Output
1, 3, 6, 8	Case ground
2, 7	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B3855	B39171-B3855-Z710	C61157-A7-A49	F61074-V8172-Z000

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

Operable temperature range	$T_A$	-40 / +85	°C	
Storage temperature range	$T_{stg}$	-40 / +85	°C	
DC voltage	$V_{DC}$	0	V	
Source power	$P_s$	10	dBm	

**SAW Components****B3855****Low Loss Filter****169,00 MHz****Data Sheet****Characteristics**

Operating temperature:

 $T_A = -40 \dots +85^\circ\text{C}$ 

Terminating source impedance:

 $Z_S = 200 \Omega$  and matching network

Terminating load impedance:

 $Z_L = 200 \Omega$  and matching network

Group delay aperture:

150 kHz

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	169,00	—	MHz
<b>Minimum insertion attenuation</b> (including matching network)	$\alpha_{\min}$	1,5	2,0	3,5	dB
<b>Passband width</b>	$\alpha_{\text{rel}} \leq 1 \text{ dB}$	$B_{1\text{dB}}$	—	7,5	MHz
<b>Amplitude ripple (p-p)</b>	$f_N \pm 2,0 \text{ MHz}$	$\Delta\alpha$	—	0,2	0,5 dB
<b>Group delay ripple (p-p)</b>	$f_N \pm 2,0 \text{ MHz}$	$\Delta\tau$	—	40	80 ns
<b>Absolute group delay</b>	mean value within $f_N \pm 2,0 \text{ MHz}$	$\tau$	127	130	137 ns
<b>Relative attenuation</b> (relative to $\alpha_{\min}$ )	$\alpha_{\text{rel}}$				
10 MHz ... 144 MHz		40	50	—	dB
144 MHz ... 148 MHz		20	40	—	dB
190 MHz ... 194 MHz		20	50	—	dB
194 MHz ... 2,0 GHz		40	45	—	dB
2,0 GHz ... 2,5 GHz		35	40	—	dB
<b>VSWR</b>		—	2,0:1	2,5:1	
<b>Impedance</b> at $f_N$ (without matching)					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	690 $\parallel$ 1,3	—	$\Omega \parallel \text{pF}$
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	580 $\parallel$ 1,1	—	$\Omega \parallel \text{pF}$
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-70	—	ppm/K



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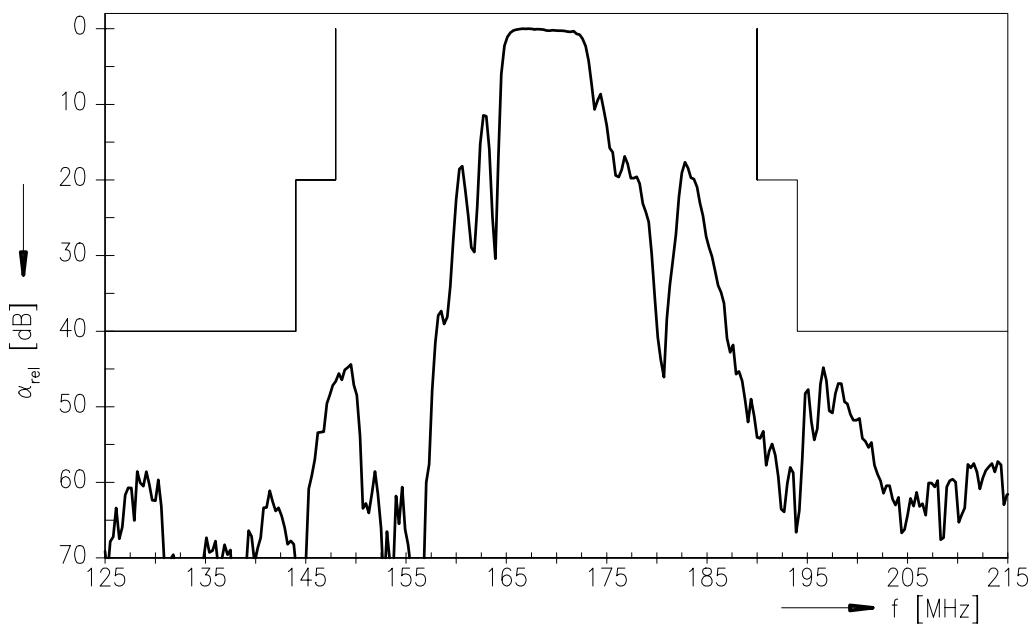
B3855

Low Loss Filter

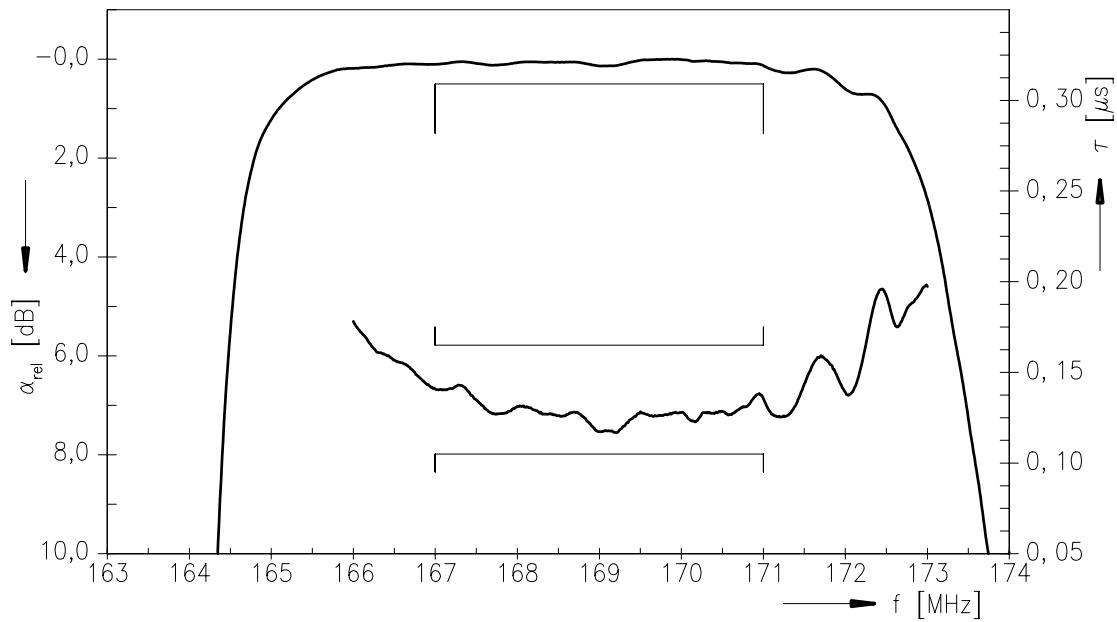
169,00 MHz

Data Sheet

### Normalized frequency response



### Normalized frequency response





**SAW Components**

**B3855**

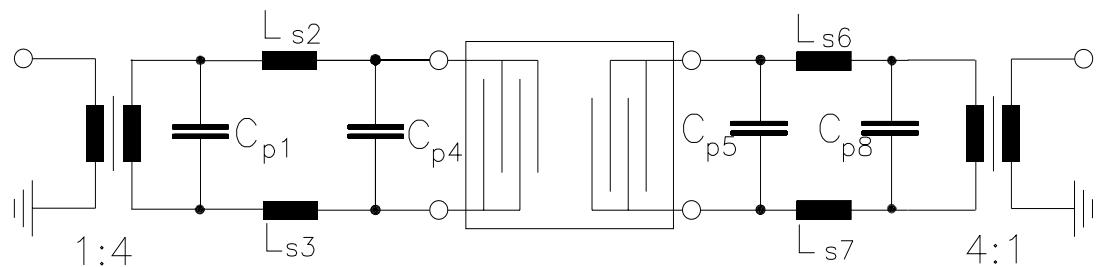
**Low Loss Filter**

**169,00 MHz**

**Data Sheet**

**Matching network**

(Element values depend upon PCB layout)



$C_{P1}=3,9 \text{ pF}$

$C_{P5}=1,0 \text{ pF}$

$L_{S2}=150 \text{ nH}$

$L_{S6}=150 \text{ nH}$

$L_{S3}=150 \text{ nH}$

$L_{S7}=180 \text{ nH}$

$C_{P4}=1,5 \text{ pF}$

$C_{P8}=3,3 \text{ pF}$

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