



# SAW Components

Data Sheet B3678

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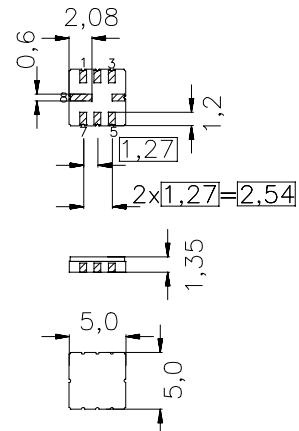
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**SAW Components**
**B3678**
**Low-Loss Filter**
**246,0 MHz**
**Data Sheet**
**Ceramic package QCC8C**
**Features**

- Low-loss IF filter
- Low insertion attenuation
- Low amplitude ripple
- Usable passband 1 MHz
- No matching network required for operation at  $200 \Omega$  (input) and  $50 \Omega$  (output)
- Balanced input, unbalanced output
- Ceramic package for **Surface Mounted Technology (SMT)**

**Terminals**

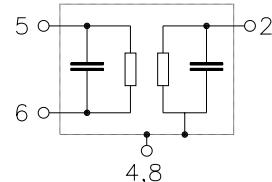
- Ni, gold-plated



Dimensions in mm, approx. weight 0,1 g

**Pin configuration**

5, 6	Balanced Input ( $200 \Omega$ )
2	Output ( $50 \Omega$ )
1	To be grounded
4, 8	Case ground
3, 7	Not connected



Type	Ordering code	Marking and Package according to	Packing according to
B3678	B39251-B3678-U310	C61157-A7-A56	F61074-V8070-Z000

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

Operable temperature range	$T$	$-25 / +85$	$^{\circ}\text{C}$	
Storage temperature range	$T_{\text{stg}}$	$-40 / +85$	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Source power	$P_s$	0	dBm	

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**Characteristics**

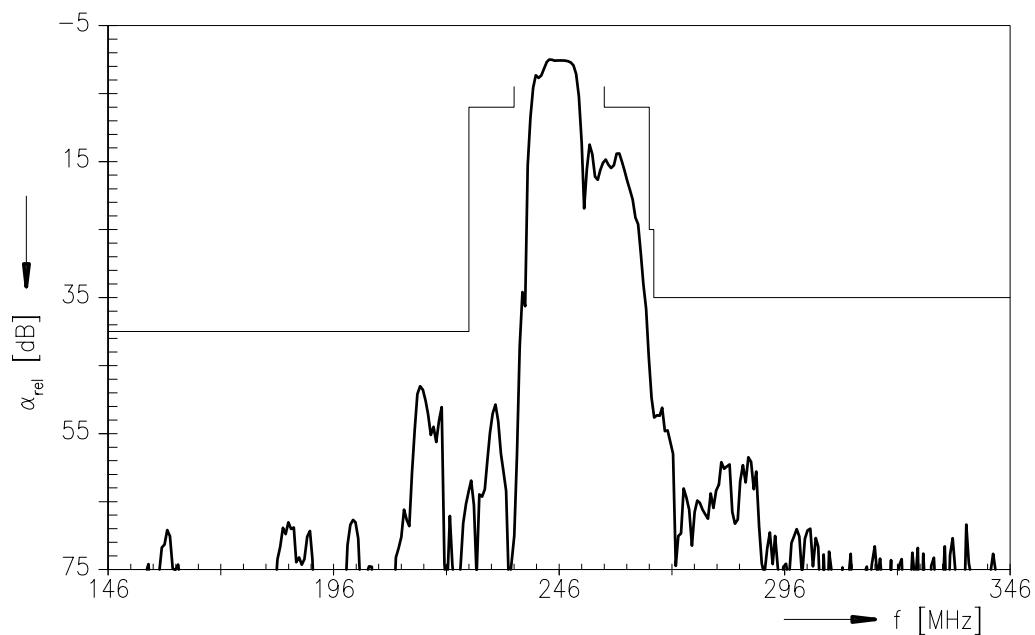
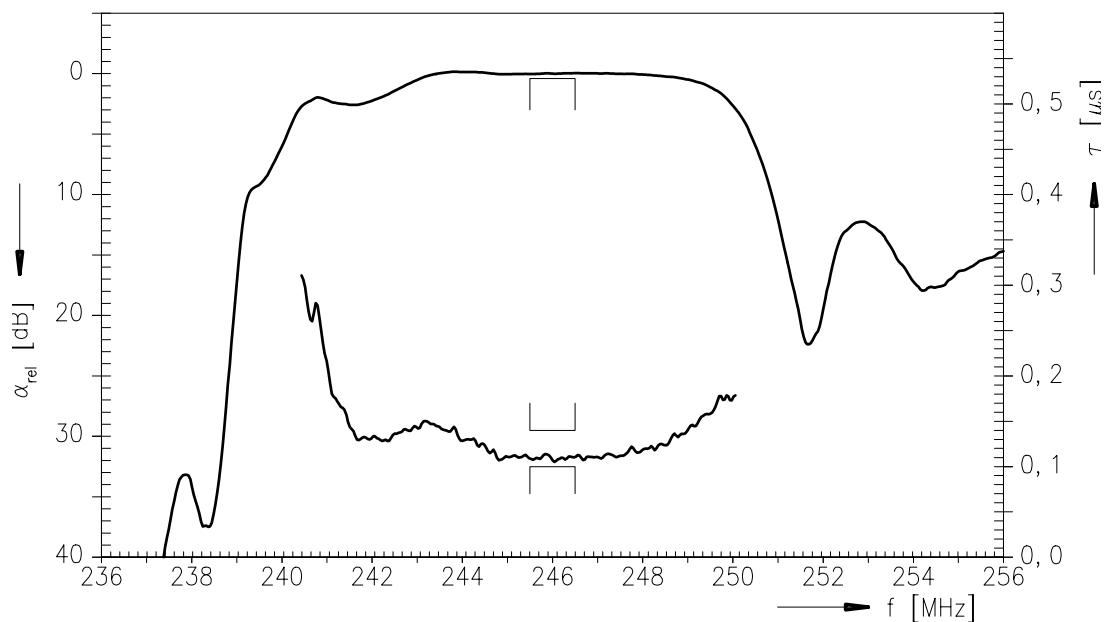
Operating temperature range:  $T = -25$  to  $+85^\circ\text{C}$

Terminating source impedance:  $Z_S = 200 \Omega$

Terminating load impedance:  $Z_L = 50 \Omega$

			min.	typ.	max.	
<b>Nominal frequency</b>		$f_N$	—	246,00	—	MHz
<b>Maximum insertion attenuation</b>		$\alpha_{\max}$	—	1,9	2,5	dB
	245,5 ... 246,5	MHz	—	1,9	2,5	dB
<b>Amplitude ripple</b>		$\Delta\alpha$	—	0,2	0,4	dB
	245,5 ... 246,5	MHz	—	0,2	0,4	dB
in any 200 kHz span:	245,5 ... 246,5	MHz	—	0,1	0,2	dB
<b>Group delay ripple (p-p)</b>		$\Delta\tau$	—	10,0	40,0	ns
	245,8 ... 246,2	MHz	—	10,0	40,0	ns
	245,5 ... 246,5	MHz	—	15,0	50,0	ns
<b>Attenuation</b>		$\alpha_{\text{rel}}$	40	50	—	dB
	100,0 ... 226,0	MHz	7	50	—	dB
	226,0 ... 236,0	MHz	7	15	—	dB
	256,0 ... 266,0	MHz	25	40	—	dB
	266,0 ... 268,0	MHz	35	50	—	dB
	268,0 ... 500,0	MHz				

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**Transfer function (reduced three port measurement)**

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