



# SAW Components

Data Sheet B3682





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B3682

Low-Loss Filter

427,5 MHz

Data Sheet

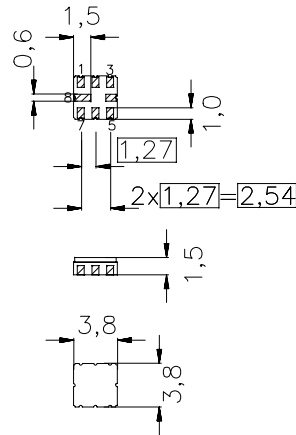
Ceramic package QCC8B

**Features**

- Low-loss filter (RX) for Trunked Radio
- Usable bandwidth 5 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

**Terminals**

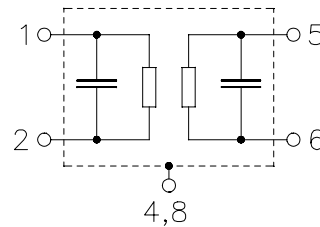
- Gold-plated



typ. Dimensions in mm, approx. weight 0,07 g

**Pin configuration**

- |      |               |
|------|---------------|
| 1    | Input         |
| 2    | Input ground  |
| 5    | Output        |
| 6    | Output ground |
| 3, 7 | Ground        |
| 4, 8 | Case ground   |



Type	Ordering code	Marking and Package according to	Packing according to
B3682	B39431-B3682-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T_A$	-30 / +75	°C	
Storage temperature range	$T_{stg}$	-40 / +85	°C	
DC voltage	$V_{DC}$	0	V	
Source power	$P_s$	10	dBm	source impedance 50 Ω


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**Characteristics**

Operating temperature range:  $T_A = +15 \dots +35 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	427,5	—	MHz
<b>Maximum insertion attenuation</b> 425,0 MHz ... 430,0 MHz	$\alpha_{\max}$	—	3,0	3,5	dB
<b>Amplitude ripple (p-p)</b> 425,0 MHz ... 430,0 MHz	$\Delta\alpha$	—	0,6	1,2	dB
<b>Return loss (Input and Output)</b> 425,0 MHz ... 430,0 MHz		11,0	13,5	—	dB
<b>VSWR</b> 425,0 MHz ... 430,0 MHz		—	1,5:1	2,0:1	
<b>Absolute attenuation</b>	$\alpha_{\text{abs}}$				
0,3 MHz ... 340,0 MHz		40	60	—	dB
340,0 MHz ... 415,0 MHz		25	45	—	dB
415,0 MHz ... 420,0 MHz		25	33	—	dB
447,0 MHz ... 515,0 MHz		20	45	—	dB
515,0 MHz ... 1105,0 MHz		40	45	—	dB
1105,0 MHz ... 1800,0 MHz		20	25	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-36	—	ppm/K



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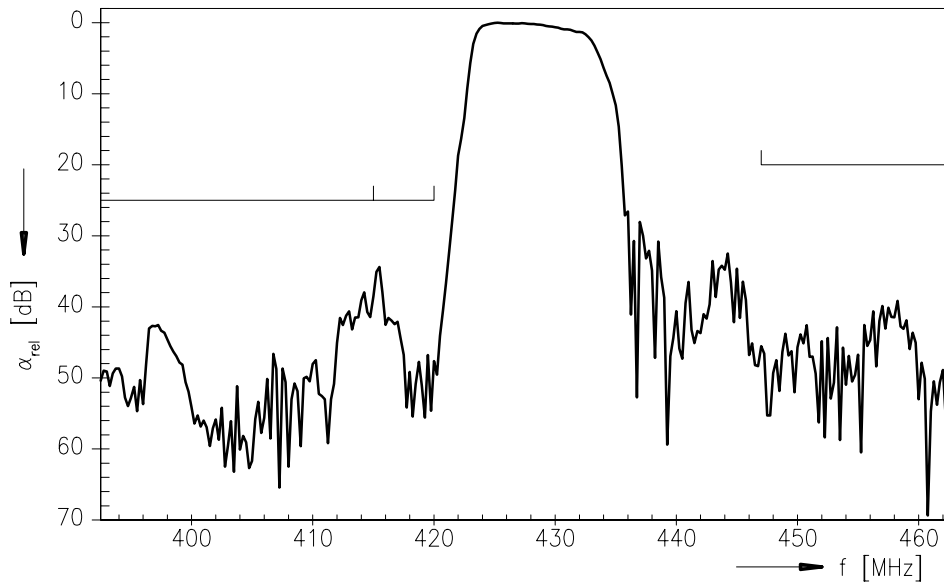
Operating temperature range:  $T_A = -30 \dots +75 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	427,5	—	MHz
<b>Maximum insertion attenuation</b> 425,0 MHz ... 430,0 MHz	$\alpha_{\max}$	—	3,0	3,5	dB
<b>Amplitude ripple (p-p)</b> 425,0 MHz ... 430,0 MHz	$\Delta\alpha$	—	0,9	2,0	dB
<b>Return loss (Input and Output)</b> 425,0 MHz ... 430,0 MHz		11,0	13,5	—	dB
<b>VSWR</b> 425,0 MHz ... 430,0 MHz		—	1,5:1	2,0:1	
<b>Absolute attenuation</b>	$\alpha_{\text{abs}}$				
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1105,0 MHz ... 1800,0 MHz		20	25	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	- 36	—	ppm/K

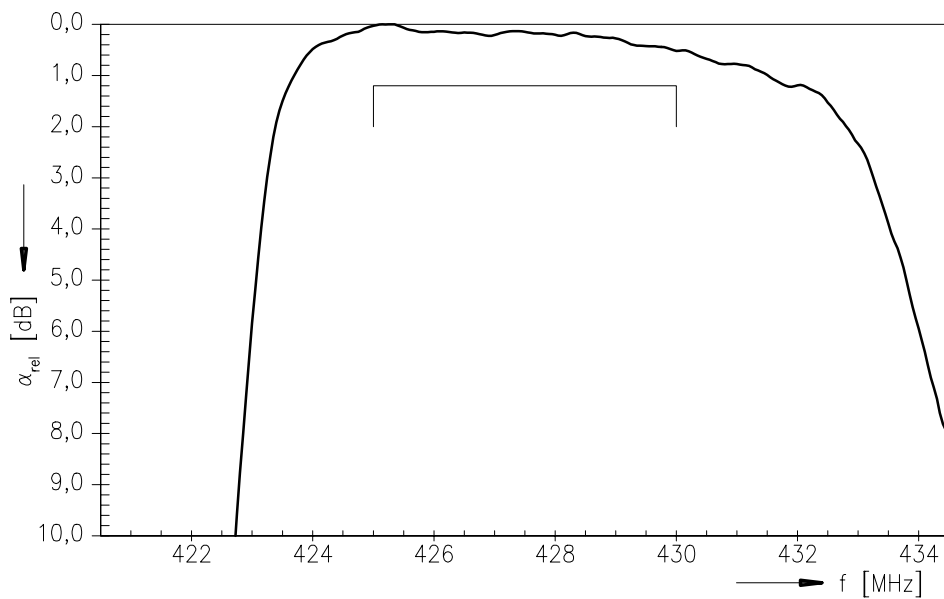


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Transfer function



Transfer function (pass band; +15 °C ... +35 °C)





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