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# SAW Components

Data Sheet B3621





<b>SAW Components</b>	<b>B3621</b>
<b>Low-Loss Filter</b>	<b>227,0 MHz</b>

**Data Sheet**

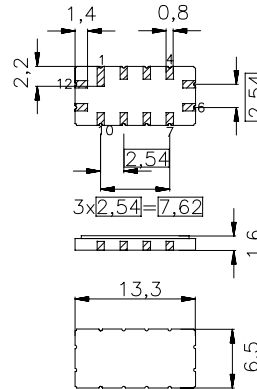
Ceramic package **QCC12**

**Features**

- Clean-up filter for GSM basestations
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

**Terminals**

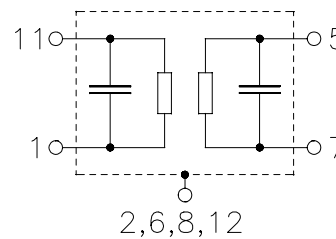
- Gold plated



Dim. in mm, aprox. weight 0,4 g

**Pin configuration**

11	Input
5	Output
1	Input ground
7	Output ground
2, 6, 8, 12	Case ground
3, 4, 9, 10	not connected



Type	Ordering code	Marking and Package according to	Packing according to
B3621	B39231-B3621-Z510	C61157-A7-A55	F61074-V8026-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T$	- 45/+ 85	°C	
Storage temperature range	$T_{stg}$	- 45/+ 85	°C	
DC voltage	$V_{DC}$	0	V	
Source power	$P_s$	10	dBm	source impedance 50 $\Omega$



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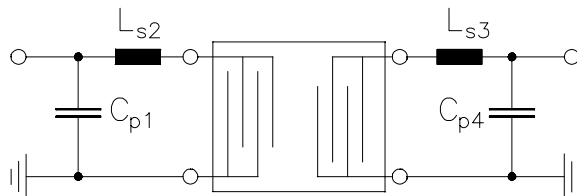
**Characteristics**

Ambient temperature:  $T_A = 25\text{ °C}$   
 Source impedance:  $Z_S = 50\ \Omega$  and matching network  
 Load impedance:  $Z_L = 50\ \Omega$  and matching network

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	227,00	—	MHz
<b>Minimum insertion attenuation</b>	$\alpha_{min}$	—	6,0	7,5	dB
Reference level for the following data					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
$f_N \pm 400\text{ kHz}$		—	0,6	1,1	dB
<b>Relative attenuation (relative to <math>\alpha_{min}</math>)</b>	$\alpha_{rel}$				
$f_N - 20,0\text{ MHz} \dots f_N - 6,0\text{ MHz}$		40	—	—	dB
$f_N - 6,0\text{ MHz} \dots f_N - 1,8\text{ MHz}$		30	—	—	dB
$f_N + 1,8\text{ MHz} \dots f_N + 6,0\text{ MHz}$		30	—	—	dB
$f_N + 6,0\text{ MHz} \dots f_N + 20,0\text{ MHz}$		40	—	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
$f_N \pm 400\text{ kHz}$		—	70	150	ns
<b>Temperature coefficient of frequency <sup>1)</sup></b>	$TC_f$	—	- 18	—	ppm/K

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

**Matching network:**



Cp1 = 22 pF  
 Ls2 = 27 nH  
 Ls3 = 27 nH  
 Cp4 = 22 pF



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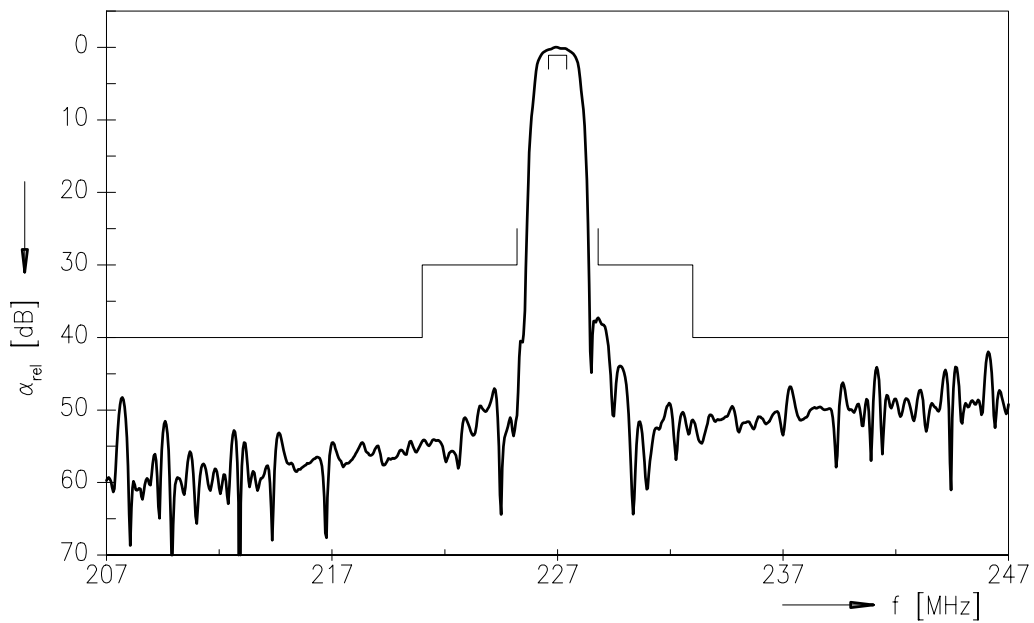
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Low-Loss Filter

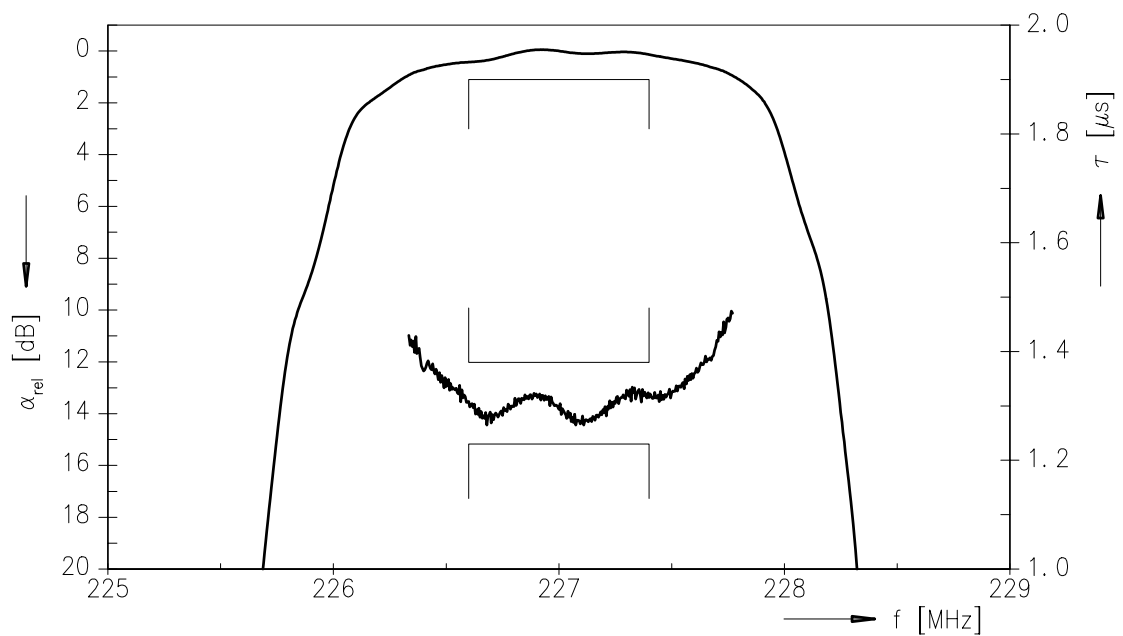
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Transfer function ( $T_A = 25\text{ }^\circ\text{C}$ )



Transfer function (pass band,  $T_A = 25\text{ }^\circ\text{C}$ )





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