



SAW Components

Data Sheet B3621

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid of latitude and longitude lines. Overlaid on the globe is a large, stylized, 3D-effect word "EPCOS" in a light gray color. The word is tilted and appears to be floating or attached to the globe's surface. The overall composition is dark and moody, with a focus on the company's global presence and technological focus.



SAW Components

B3621

Low-Loss Filter

227,0 MHz

Data Sheet

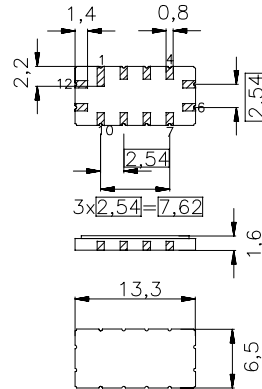
Ceramic package **QCC12**

Features

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

Terminals

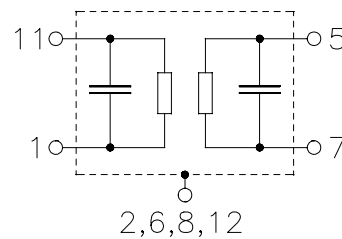
- Gold plated



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 Ω



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Characteristics

Ambient temperature:

$$T_A = 25\text{ °C}$$

Source impedance:

$$Z_S = 50\ \Omega \text{ and matching network}$$

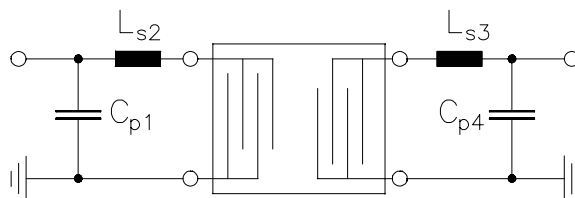
Load impedance:

$$Z_L = 50\ \Omega \text{ and matching network}$$

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

¹⁾ Temperature dependance of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0))$

Matching network:

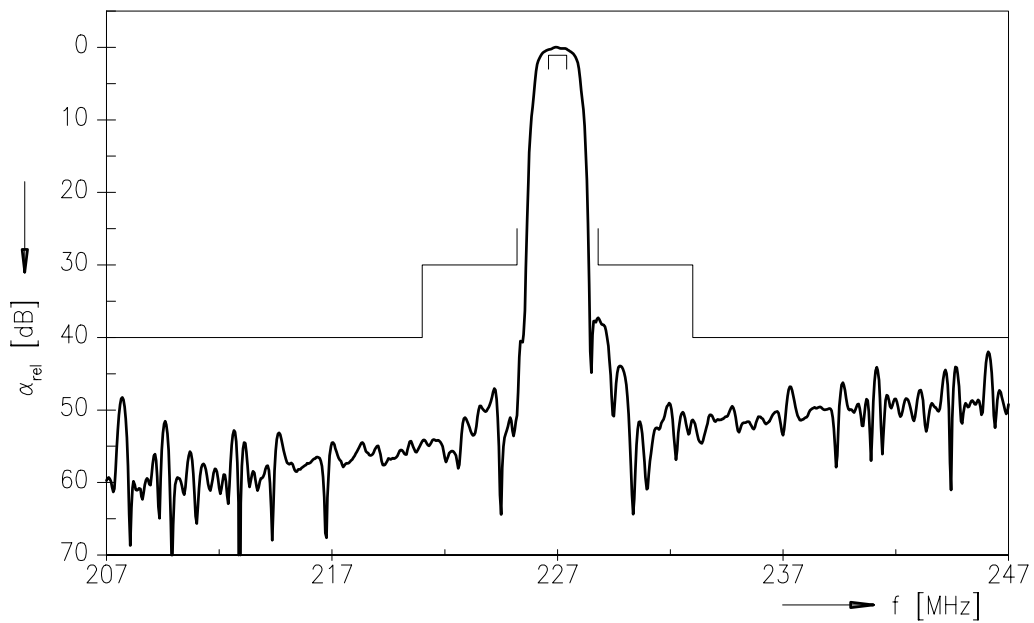
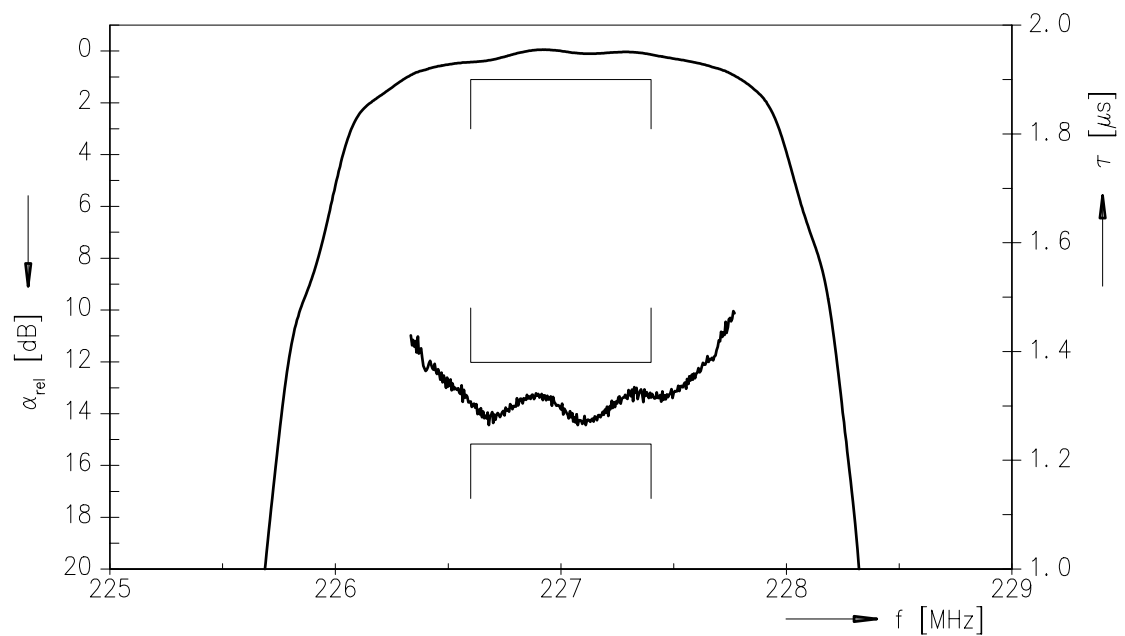


$$C_{p1} = 22\text{ pF}$$

$$L_{s2} = 27\text{ nH}$$

$$L_{s3} = 27\text{ nH}$$

$$C_{p4} = 22\text{ pF}$$

**SAW Components****B3621****Low-Loss Filter****227,0 MHz****Data Sheet****Transfer function ($T_A = 25^\circ\text{C}$)****Transfer function (pass band, $T_A = 25^\circ\text{C}$)**



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Low-Loss Filter	227,0 MHz

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