



SAW Components

Data Sheet B3621





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Low-Loss Filter

227,0 MHz

Data Sheet

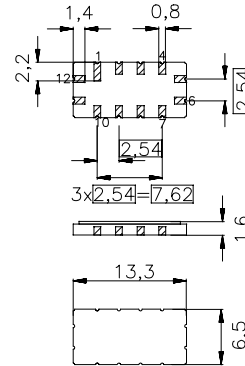
Ceramic package QCC12

Features

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

Terminals

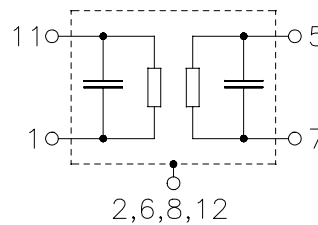
- Gold plated



Dim. in mm, approx. 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:

$$T_A = 25 \text{ }^\circ\text{C}$$

Source impedance:

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

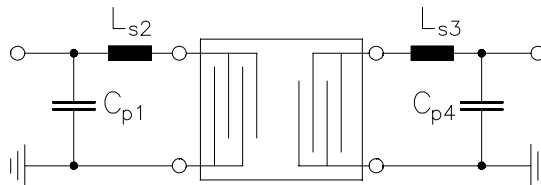
Load impedance:

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

		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:



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

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

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

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



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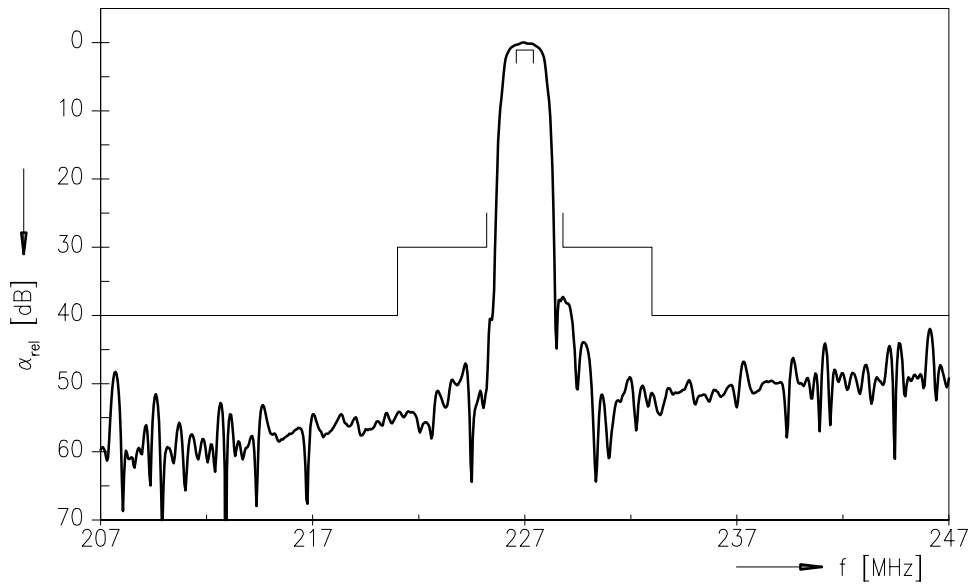
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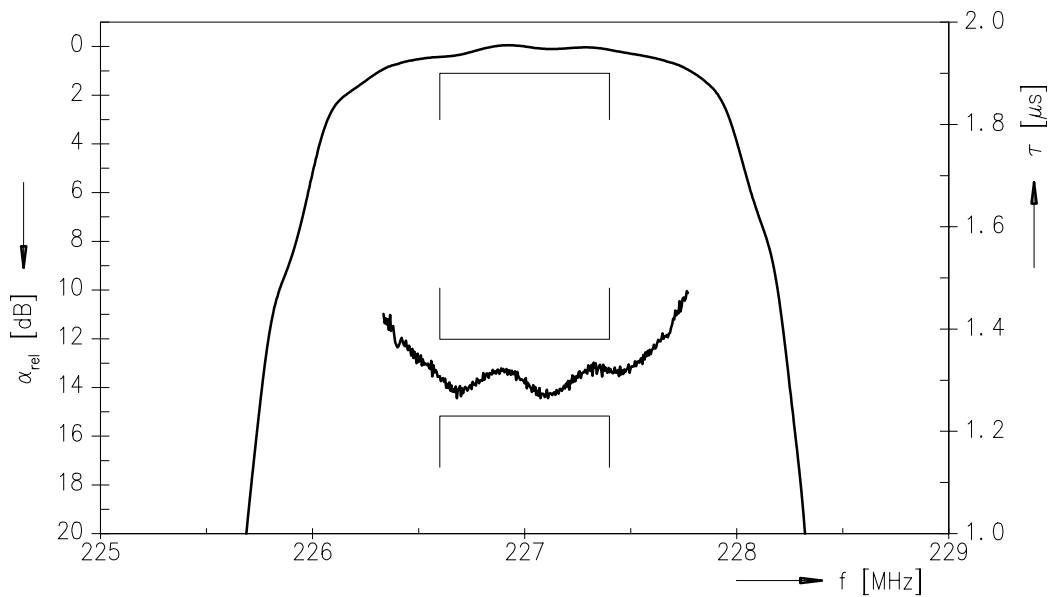
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Transfer function ($T_A = 25\text{ }^\circ\text{C}$)



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





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