Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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EPCOS

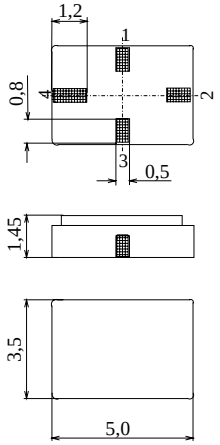
SAW Components

Data Sheet R804

Ceramic package **QCC4A**

Features

- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- Protection Layer: ELPAS



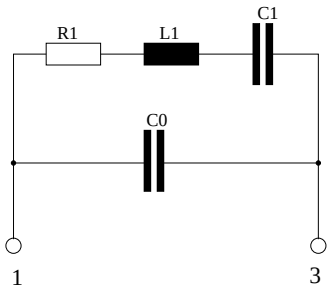
Terminals

- Ni, gold plated

Dimensions in mm, approx. weight 0,1 g

Pin configuration

1	Input
3	Output, grounded in 1-port conf.
2,4	Ground (case)



Type	Ordering code	Marking and Package according to	Packing according to
R 804	B39871-R 804-H210	C61157-A7-A86	F61074-V8120-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T_A	–40/+125	˚C	
Storage temperature range	T_{stg}	–40/+125	˚C	
DC voltage	V_{DC}	12	V	between any terminals
Source power	P_s	0	dBm	

Data Sheet

Characteristics

Reference temperature: T_A = 25 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency [1]	f_c	868,15	868,35	868,55	MHz
Minimum insertion attenuation	α_{min}	—	1,2	1,6	dB
Unloaded quality factor	Q_U	5100	7800	—	
Ageing of f_c		—	—	–10/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	2,11	—	fF
Motional inductance	L_1	—	15,9	—	µH
Motional resistance	R_1	—	12	17	Ω
Parallel capacitance [2]	C_0	—	2,20	—	pF
Temperature coefficient of frequency [3]	TC_f	—	–0,032	—	ppm/K^2
Turnover temperature	T_0	15	—	35	˚C

[1] Center frequency is defined as maximum of the real part of the admittance

[2] If used in two port configuration (pin 1-input, pin 3-output) C_0 is reduced by approx. 0,3 pF.

[3] Temperature dependence of f_c: $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW CE AE
P.O. Box 80 17 09, 81617 Munich, GERMANY

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