

SAW Components

Data Sheet R 804





SAW Components	R 804
Resonator	868,35 MHz

Data Sheet

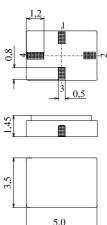
Ceramic package QCC4A

Features

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

Terminals

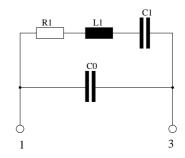
■ Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

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



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

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-40/+125	°C	
Storage temperature range	$T_{\rm stg}$	-40/+125	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	P_{s}	0	dBm	



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Characteristics

 $\begin{array}{ll} \text{Reference temperature:} & T_{\text{A}} & = 25 \, ^{\circ}\text{C} \\ \text{Terminating source impedance:} & Z_{\text{S}} & = 50 \, \Omega \\ \text{Terminating load impedance:} & Z_{\text{L}} & = 50 \, \Omega \end{array}$

		min.	typ.	max.	
Center frequency 1)	$f_{\rm c}$	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 $f_{\rm c}$		_	_	-10/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,11	_	fF
Motional inductance	L_1	_	15,9	_	μΗ
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 : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



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