



**THE DATASHEET OF
B39301R807H210**





SAW Components

Data Sheet R 807

Data Sheet

A large, stylized, 3D rendering of the word "EPCOS" in a light gray, sans-serif font. The letters are thick and have a slight shadow, giving them a three-dimensional appearance. The logo is set against a dark, circular background that features a faint, glowing globe with latitude and longitude lines. The overall effect is a modern, high-tech aesthetic.



SAW Components

R 807

Resonator

303,825 MHz

Data Sheet

SMD

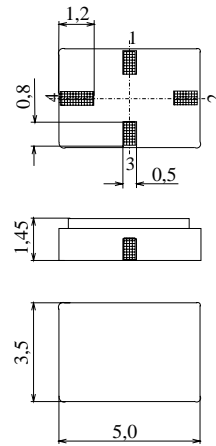
Ceramic package QCC4A

Features

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

Terminals

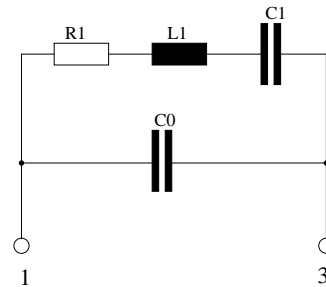
- Ni, gold plated



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
R807	B39301-R807-H210	C61157-A7-A86	F61074-V8175-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

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



Data Sheet



Characteristics

Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency ¹⁾	f_c	303,750	303,825	303,900	MHz
Minimum insertion attenuation	α_{\min}	—	1,2	1,6	dB
Unloaded quality factor	Q_U	12500	17300	—	
Ageing of f_c		—	—	-10/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	1,95	—	fF
Motional inductance	L_1	—	140,72	—	μH
Motional resistance	R_1	—	15	21	Ω
Parallel capacitance ²⁾	C_0	—	2,5	—	pF
Temperature coefficient of frequency ³⁾	TC_f	—	-0,032	—	ppm/K ²
Turnover temperature	T_0	15	—	35	$^{\circ}\text{C}$

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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This brochure replaces the previous edition.

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