

SAW Components

Data Sheet R 807





Resonator R 807
Resonator 303,825 MHz

Data Sheet

SMD

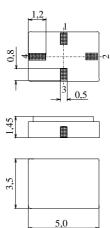
Ceramic package QCC4A

Features

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

Terminals

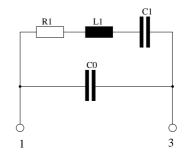
■ Ni, gold plated



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	Packing		
		according to	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	
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

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

		min.	typ.	max.	
Center frequency 1)	$f_{\rm c}$	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 $f_{\rm c}$		_	_	-10/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	1,95	_	fF
Motional inductance	L_1	_	140,72	_	μΗ
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	°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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