

SAW Components

Data Sheet R 851





SAW Components	R 851
Resonator	315,02 MHz

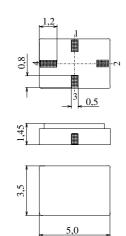
Data Sheet

Features

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

Terminals

Ni, gold plated

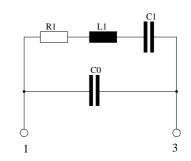


Ceramic package QCC4A

Dimensions in mm, approx. weight 0,1 g

Pin configuration

1Input3Output, grounded in 1-port conf.2,4Ground (case)



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
R 851	B39321-R 851-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 _{stg}	-40/+125	°C	
DC voltage	V _{DC}	12	V	between any terminals
Source power	Ps	0	dBm	

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Characteristics		
Reference temperature: Terminating source impedance: Terminating load impedance:	$T_{A} = 25 \degree C$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	

		min.	typ.	max.	
Center frequency 1)	f _c	314,97	315,02	315,07	MHz
Minimum insertion attenuation	α_{min}	_	1,3	1,6	dB
Unloaded quality factor	Q_{U}	8300	13200	_	
Ageing of f_c		—		-10/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,47	_	fF
Motional inductance	L_1	_	103,34	_	μH
Motional resistance	R_1	_	15	20	Ω
Parallel capacitance ²⁾	C_0	—	3,2	_	pF
Temperature coefficient of frequency ³⁾	TC _f	_	-0,032	—	ppm/K ²
Turnover temperature	T_0	25	35	45	°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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