

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









SAW Components

Data Sheet R 850





SAW Components	R 850
Resonator	433,94 MHz

Data Sheet

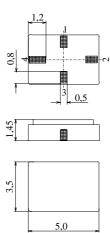
Ceramic package QCC4A

Features

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

Terminals

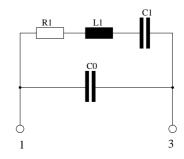
■ Ni, gold plated



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 850	B39431-R 850-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

Reference temperature: $T_{\rm A}=25\,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S}=50\,\Omega$ Terminating load impedance: $Z_{\rm L}=50\,\Omega$

		min.	typ.	max.	
Center frequency 1)	$f_{\rm c}$	433,89	433,94	433,99	MHz
			4.0	4 -	ID.
Minimum insertion attenuation	α_{min}	_	1,2	1,5	dB
Unloaded quality factor	Q_{U}	8000	13800	_	
Ageing of $f_{\rm c}$		_	_	-10/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,066	_	fF
Motional inductance	L_1	_	65,11	_	μΗ
Motional resistance	R_1	_	13	18	Ω
Parallel capacitance ²⁾	C_0	_	2,7	_	pF
Temperature coefficient of frequency 3)	TC _f	_	-0,032	_	ppm/K ²
Turnover temperature	T_0	15	25	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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This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.