

SAW Components

Data Sheet R 850





SAW Components	R 850
Resonator	433,94 MHz

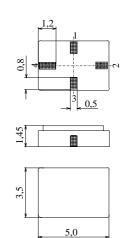
Data Sheet

Features

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

Terminals

Ni, gold plated

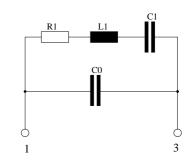


Ceramic package QCC4A

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 850	B39431-R 850-H210	C61157-A7-A86	F61074-V8120-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	TA	-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:	$T_{A} = 25 °C$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	

		min.	typ.	max.	
Center frequency 1)	f _c	433,89	433,94	433,99	MHz
Minimum insertion attenuation	α_{min}	_	1,2	1,5	dB
Unloaded quality factor	Q_{U}	8000	13800	_	
Ageing of <i>f</i> _c				-10/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,066	_	fF
Motional inductance	L_1	_	65,11	_	μH
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.

Data Sheet

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.

