

SAW Components

Data Sheet R 883





SAW Components	R 883
Resonator	315,15 MHz

Data Sheet

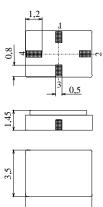
Ceramic package QCC4A

Features

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

Terminals

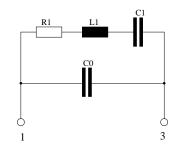
■ Ni, gold plated



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 883	B39321-R 883-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	$P_{\rm s}$	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 _C	315,05	315,15	315,25	MHz
Minimum insertion attenuation	α_{min}	_	1,5	1,9	dB
Unloaded quality factor	Q_{U}	9600	12800	_	
Ageing of f_c		_	_	-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,19	_	fF
Motional inductance	L_1	_	116,5	_	μΗ
Motional resistance	R_1	_	18	24	Ω
Parallel capacitance 2)	C_0	_	2,60	_	pF
Temperature coefficient of frequency 3)	TC _f	_	-0,032	_	ppm/K ²
Turnover temperature	T_0	20	_	50	°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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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE AE PD P.O. Box 80 17 09, D-81617 München

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