

SAW Components

Data Sheet R901





SAW Components	R901
Resonator	315,00 MHz

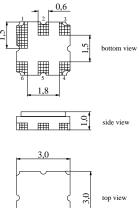
Data Sheet

Features

- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- Hermetically sealed ceramic package
- Protection layer: Elpas
- AEC-Q200 qualified components family
- Compliant to EU RoHs Directive (2002/95/EC)
- Lead free soldering compatible with J STD20C

Terminals

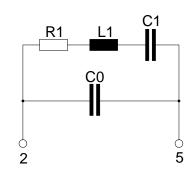
Ni, gold plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input
5	Output, grounded in 1-port conf.
1,3,4,6	Ground (case)



Туре	Ordering code	Marking and Package	Packing
		according to	according to
R901	B39321-R 901-H110	C61157-A7-A143	F61074-V8168-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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Ceramic package



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

		min.	typ.	max.	
Center frequency 1)	f _c	314,925	315,000	315,075	MHz
Minimum insertion attenuation	α_{min}	_	1,5	1,9	dB
Unloaded quality factor	Q_{U}	7600	11000	—	
Ageing of <i>f</i> _c			_	-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,268	—	fF
Motional inductance	L_1	_	112,5	—	μH
Motional resistance	R_1	_	20	28	Ω
Parallel capacitance ²⁾	C_0	—	3,30	—	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) \textit{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.

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