

SAW Components

Preliminary Data R901





SAW Components	R901
Resonator	315,00 MHz

Preliminary Data

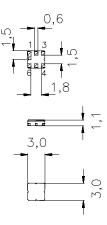
Ceramic package DCC6C

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

Terminals

■ Ni, gold plated



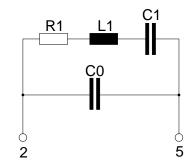
Dimensions in mm, approx. weight 0,037 g

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-U410	C61157-A7-A67	F61074-V8168-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-40/+95	°C	
Storage temperature range	$T_{\rm stg}$	-40/+95	°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)	$f_{\rm C}$	314,925	315,000	315,075	MHz
Minimum insertion attenuation	α_{min}	_	1,4	1,8	dB
Unloaded quality factor	Q_{U}	7600	10800	_	
Ageing of f _c		_	_	-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,445	_	fF
Motional inductance	L_1	_	104,4	_	μΗ
Motional resistance	R_1	_	19	27	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	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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This brochure replaces the previous edition.

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