

SAW Components

Data Sheet R904





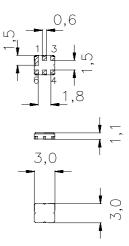
SAW Components		R904
Resonator		433,42 MHz
Data Sheet	SMD	
		Ceramic package DCC6C

Features

- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- Protection layer: ELPAS
- AEC-Q200 qualified component family
- Compliant to EU RoHs Directive (2002/95/EC)

Terminals

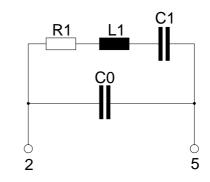
Ni, gold plated



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	
R904	B39431-R 904-U410	C61157-A7-A67	F61074-V8168-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	



SAW Components Resonator	_	R904 433,42 MHz
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Characteristics		
Reference temperature: Terminating source impedance: Terminating load impedance:	$T_{A} = 25 \degree C$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	

		min.	typ.	max.	
Center frequency 1)	f _c	433,345	433,42	433,495	MHz
Minimum insertion attenuation	α_{min}	_	1,4	_	dB
Unloaded quality factor	Q_{U}	8300	11600	_	
Ageing of <i>f</i> _c			_	-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	1,76	_	fF
Motional inductance	L_1	_	76,7	_	μH
Motional resistance	R_1	_	18	25	Ω
Parallel capacitance ²⁾	C_0	—	2,4	-	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 2-input, pin 5-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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