

# SAW Components

Data Sheet R 714





SAW Components	R 714
Resonator	423,22 MHz
Data Sheet	

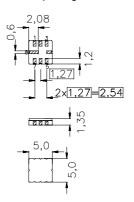
## SMD Ceramic package QCC8C

# Features

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

#### Terminals

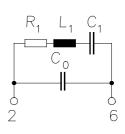
Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

## Pin configuration

2	Input
6	Output, grounded in 1-port conf.
4,8	Ground (case)
1,3	float
5,7	float / ground



Туре	Ordering code	Marking and Package	Packing	
		according to	according to	
R 714	B39431-R 714-U310	C61157-A7-A56	F61074-V8023-Z000	

Electrostatic Sensitive Device (ESD)

#### Maximum ratings

Operable temperature range	TA	-45/+120	°C	
Storage temperature range	T <sub>stq</sub>	-45/+120	°C	
DC voltage	V <sub>DC</sub>	12	V	between any terminals
Source power	Ps	0	dBm	





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Characteristics					
Reference temperature: Terminating Source impedance: Terminating Load impedance:	$T_{A} = 25^{\circ}$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	2			
		min.	typ.	max.	
Center frequency 1)	f <sub>c</sub>	423,145	423,22	423,295	MHz
Minimum insertion attenuation	$\alpha_{min}$	_	1,2	1,9	dB
Unloaded quality factor	QU	6000	10000	_	
Ageing of f <sub>c</sub>		-	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	C <sub>1</sub>	_	2,228	_	fF
Motional inductance	L <sub>1</sub>	_	63,47	_	μH
Motional resistance	R <sub>1</sub>	_	15	27	Ω
Parallel Capacitance <sup>2)</sup>	C <sub>0</sub>	_	3,4	_	pF
Temperature coefficient of frequency 3)	TC <sub>f</sub>	-	- 0,03		ppm/K <sup>2</sup>
Turnover temperature	T <sub>0</sub>	0	_	30	°C

<sup>1)</sup> Center frequency is defined as maximum of the real part of the admittance

 $^{2)}$  lf used in two port configuration (pin 2-input, pin 6-output)  ${\it C}_{\rm 0}$  is reduced by approx. 0,3 pF.

<sup>3)</sup>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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Resonator **Data Sheet** 

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