

SAW Components

Data Sheet R 715





SAW Components

Resonator

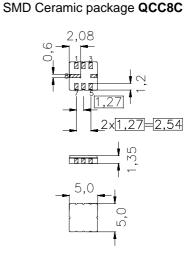
Data Sheet

Features

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

Terminals

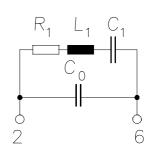
Ni, gold plated



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 715	B39431-R 715-U310	C61157-A7-A56	F61074-V8023-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T _A	-45/+85	°C	
Storage temperature range	T _{stq}	-45/+85	°C	
DC voltage	V _{DC}	12	V	between any terminals
Source power	Ps	0	dBm	



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R 715 433,32 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	433,245	433,32	433,395	MHz
Minimum insertion attenuation	α_{min}	_	1,4	1,9	dB
Unloaded quality factor	Q _U	7000	13000	_	
Ageing of f _c		_	_	±50	ppm
Equivalent circuit elements					

 C_1

 L_1

 R_1

 C_0

 TC_{f}

 T_0

0

1,81

74,53

16

3,3

- 0,032

fF

μH

Ω

pF

°C

ppm/K²

30

30

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 6-output) \mathcal{C}_{0} is reduced by approx. 0,3 pF.

³⁾Temperature dependence of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

Motional capacitance

Motional inductance

Motional resistance

Parallel Capacitance 2)

Turnover temperature

Temperature coefficient of frequency 3)

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Resonator	433,32 MHz

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Data Sheet

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