

# SAW Components

Data Sheet R 705





SAW Components	R 705
Resonator	315,00 MHz

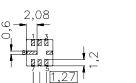
**Data Sheet** 

## Features

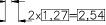
- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators

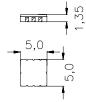
# Terminals

Ni, gold plated



Ceramic package QCC8C

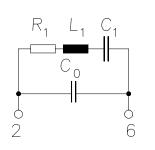




Dimensions in mm, approx. weight 0,1 g

#### **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 705	B39321-R 705-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

### **Maximum ratings**

Operable temperature range	T <sub>A</sub>	-45/+120	°C	
Storage temperature range	T <sub>stg</sub>	-45/+120	°C	
DC voltage	V <sub>DC</sub>	12	V	between any terminals
Source power	$P_{\rm s}^{-1}$	0	dBm	



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SAW Components Resonator 315.					R 705 0 MHz
Data Sheet				315,0	
Characteristics					
Reference temperature: $T_A = 25 \degree C$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$					
		min.	typ.	max.	
Center frequency 1)	f <sub>c</sub>	314,915	315,00	315,085	MHz
Minimum insertion attenuation	$\alpha_{min}$	_	1,5	2,0	dB
Unloaded quality factor	$Q_{U}$	8000	16000	—	
Ageing of <i>f</i> <sub>c</sub>		_	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	<i>C</i> <sub>1</sub>	—	1,987	_	fF
Motional inductance	L <sub>1</sub>	—	128,5	—	μH
Motional resistance	<i>R</i> <sub>1</sub>	—	19	—	Ω
Parallel capacitance <sup>2)</sup>	$C_0$	—	3,2	—	pF

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

<sup>2)</sup> If used in two port configuration (pin 2-input, pin 6-output)  $C_0$  is reduced by approx. 0,3 pF.

TC<sub>f</sub>

 $T_0$ 

10

- 0,03

\_

ppm/K<sup>2</sup>

°C

40

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

Temperature coefficient of frequency 3)

**Turnover temperature** 

May 09, 2001

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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE AE PD P.O. Box 80 17 09, D-81617 München

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May 09, 2001