

SAW Components

Data Sheet R 705





SAW Components	R 705
Resonator	315,00 MHz

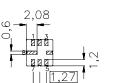
Data Sheet

Features

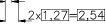
- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators

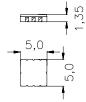
Terminals

Ni, gold plated



Ceramic package QCC8C

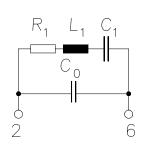




Dimensions in mm, approx. weight 0,1 g

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 _A	-45/+120	°C	
Storage temperature range	T _{stg}	-45/+120	°C	
DC voltage	V _{DC}	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 _c	314,915	315,00	315,085	MHz
Minimum insertion attenuation	α_{min}	_	1,5	2,0	dB
Unloaded quality factor	Q_{U}	8000	16000	—	
Ageing of <i>f</i> _c		_	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	<i>C</i> ₁	—	1,987	_	fF
Motional inductance	L ₁	—	128,5	—	μH
Motional resistance	<i>R</i> ₁	—	19	—	Ω
Parallel capacitance ²⁾	C_0	—	3,2	—	pF

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) C_0 is reduced by approx. 0,3 pF.

TC_f

 T_0

10

- 0,03

_

ppm/K²

°C

40

³⁾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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