

SAW Components

Data Sheet R 708





SAW Components	R 708
Resonator	433,42 MHz

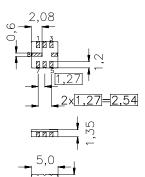
Data Sheet

Features

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

Terminals

Ni, gold plated



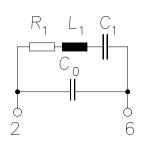
5,0

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 708	B39431-R 708-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	$V_{\rm DC}$	12	V	between any terminals
Source power	$P_{\rm s}^{-1}$	0	dBm	

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Characteristics Reference temperature: Terminating source impedance: Terminating load impedance:	$T_{A} = 25 ^{\circ} \Omega$ $Z_{S} = 50 \Omega$ $Z_{I} = 50 \Omega$				
Center frequency ¹⁾	<i>f</i> _c	min. 433,345	typ. 433,42	max. 433,52	MHz
Minimum insertion attenuation Unloaded quality factor	$lpha_{\sf min}$ $Q_{\sf U}$	— 6000	1,2 12500	1,8	dB
Ageing of <i>f</i> _c		_	_	± 50	ppm
Equivalent circuit elements Motional capacitance Motional inductance Motional resistance Parallel capacitance ²⁾	C ₁ L ₁ R ₁ C ₀	 	1,98 68,1 14 3,4	 25 	fF μH Ω 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.

 $TC_{\rm f}$

 T_0

0

- 0,03

_

ppm/K²

°C

30

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

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