

SAW Components

Data Sheet R 723





SAW Components R 723
Resonator 434,42 MHz

Data Sheet

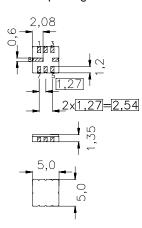
Features

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

Terminals

■ Ni, gold plated

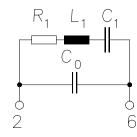
Ceramic package QCC8C



typ. 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 723	B39431-R 723-U310	C61157-A7-A56	F61074-V8023-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-45/+85	°C	
Storage temperature range	$T_{\rm stg}$	-45/+85	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	$P_{\rm s}$	0	dBm	



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Characteristics

 $\begin{array}{ll} \mbox{Reference temperature:} & T_{\mbox{A}} = 25 \ ^{\circ}\mbox{C} \\ \mbox{Terminating source impedance:} & Z_{\mbox{S}} = 50 \ \Omega \\ \mbox{Terminating Load impedance:} & Z_{\mbox{L}} = 50 \ \Omega \\ \end{array}$

		min.	typ.	max.	
Center frequency 1)	f _C	434,345	434,42	434,495	MHz
Minimum insertion attenuation	α_{min}	_	1,2	1,8	dB
Unloaded quality factor	Q_{U}	7700	12800	_	
Ageing of $f_{\rm c}$		_	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	1,9	_	fF
Motional inductance	L_1	_	70,64	_	μΗ
Motional resistance	R_1	_	15	25	Ω
Parallel capacitance ²⁾	C_0	_	3,0	_	pF
Temperature coefficient of frequency 3)	TC_{f}	_	- 0,032	_	ppm/K ²
Turnover temperature	T_0	10	_	40	°C

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.

³⁾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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