

SAW Components

Data Sheet R 727





SAW Components	R 727
Resonator	433,92 MHz

Data Sheet

Features

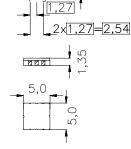
- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators

Terminals

Ni, gold plated



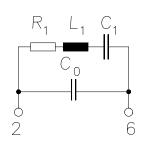
Ceramic package QCC8C



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 727	B39431-R 727-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	Ps	0	dBm	

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Characteristics					
Reference temperature: Terminating source impedance: Terminating Load impedance:	$T_{A} = 25 ° 0$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	2			
		min.	typ.	max.	
Center frequency ¹⁾	f _c	433,845	433,92	433,995	MHz
Minimum insertion attenuation	α_{min}	_	1,0	1,7	dB
Unloaded quality factor	Q_{U}	8000	14500	—	
Ageing of <i>f</i> _c		—	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	1,95	—	fF
Motional inductance	L ₁	_	69	_	μH

 L_1 R_1 Motional inductance 69 μΗ 12 23 Ω Motional resistance C_0 Parallel capacitance 2) 2,7 pF ____ $TC_{\rm f}$ - 0,03 ppm/K² Temperature coefficient of frequency 3) ____ **Turnover temperature** 0 30 °C T_0 ____

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) \textit{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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