

SAW Components

Data Sheet R 727

Farnell Code - 7455437





SAW Components	R 727
Resonator	433,92 MHz

Data Sheet

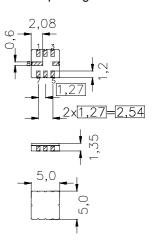
Features

- 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

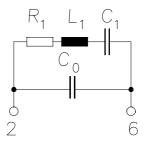
2	Ini	put

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	$T_{\rm stg}$	-45/+120	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	$P_{\rm s}$	0	dBm	



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Characteristics

Reference temperature: $T_{\rm A}=25\,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S}=50\,\Omega$ Terminating Load impedance: $Z_{\rm L}=50\,\Omega$

		min.	typ.	max.	
Center frequency ¹⁾	$f_{\rm c}$	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 f_c		_	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	1,95	_	fF
Motional inductance	L_1	_	69	_	μН
Motional resistance	R_1	_	12	23	Ω
Parallel capacitance 2)	C_0	_	2,7	_	pF
Temperature coefficient of frequency 3)	TC_{f}	_	- 0,03	_	ppm/K ²
Turnover temperature	T_0	0	_	30	°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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