

SAW Components

Data Sheet R 2701





SAW Components	R 2701
Resonator	433,92 MHz

Data Sheet

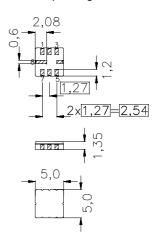
Features

- 2-port resonator
- nominal 180°-phase at resonance
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- AEC-Q200 qualified component family

Terminals

■ Ni, gold plated

SMD Ceramic package QCC8C



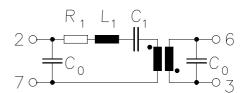
Dimensions in mm, approx. weight 0,1 g

Pin configuration

2	Input / Ouptput
6	Output / Input

7 Ground (Input / Output) 3 Ground (Output / Input)

4,8 Ground (case)



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
R2701	B39431-R2701-U310	C61157-A7-A56	F61074-V8070-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-45/+125	°C	
Storage temperature range	T_{stg}	-45/+125	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	P_{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 f_c		433,845	433,920	433,995	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation α_r	min	_	9,2	10,5	dB
Phase at f_c ϕ		_	160	_	° el.
Loaded quality factor Q	L	5000	7800	_	
Unloaded quality factor Q	U	8000	11200	_	
Ageing of f _c		_	_	±50	ppm
Equivalent circuit elements					
Motional capacitance C.	1	_	0,141	_	fF
Motional inductance L ₁	ı	_	954	_	μΗ
Motional resistance R	1	_	230	_	Ω
Input / Output capacitance Co	0	_	2,3	_	pF
Temperature coefficient of frequency 1) To	C_{f}		-0,03	_	ppm/K ²
Turnover temperature T ₀	0		40	_	°C

¹⁾ 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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Resonator

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This brochure replaces the previous edition.

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