

SAW Components

Data Sheet R 2701





SAW Components

Resonator

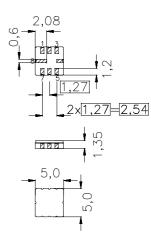
Data Sheet

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

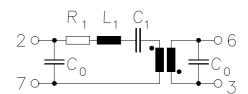


SMD Ceramic package QCC8C

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 _{DC}	12	V	between any terminals
Source power	Ps	0	dBm	



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R 2701 433,92 MHz



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Characteristics					
Reference temperature: $T_A = 25 \degree C$ Terminating Source impedance: $Z_S = 50 \Omega$ Terminating Load impedance: $Z_L = 50 \Omega$					
		min.	typ.	max.	
Center frequency	f _c	433,845	433,920	433,995	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$lpha_{min}$	_	9,2	10,5	dB
Phase at f _c	φ	_	160	_	°el.
Loaded quality factor	Q_L	5000	7800	_	
Unloaded quality factor	QU	8000	11200	_	
Ageing of f _c		_	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	C ₁	_	0,141	_	fF
Motional inductance	L ₁	_	954	_	μH
Motional resistance	R ₁		230	_	Ω
Input / Output capacitance	C ₀		2,3		pF
	70		0.00		11.2

 $TC_{\rm f}$

 T_0

ppm/K²

°C

-0,03

40

¹⁾ 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 ¹⁾

Turnover temperature

3



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Resonator	433,92 MHz

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This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

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