

SAW Components

Data Sheet R 2701





SAW Components	R 2701
Resonator	433,92 MHz

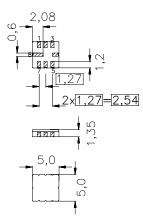
Data Sheet

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

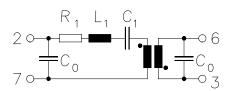


SMD Ceramic package QCC8C

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

Aug 31, 2004



SAW Components					R 2701
Resonator 43					92 MHz
Data Sheet					
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	α_{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	<u> </u>	954		μH
Motional resistance	R ₁	— —	230	-	Ω
	•	1		1	

 C_0

 T_0

TC_f

pF

°C

_

ppm/K²

2,3

-0,03

40

¹⁾ Temperature dependence of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

Input / Output capacitance

Turnover temperature

Temperature coefficient of frequency ¹⁾

3 Aug 31, 2004



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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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