

# SAW Components

Data Sheet R2711





# SAW Components

# Resonator

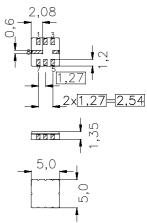
**Data Sheet** 

### Features

- 2-port resonator
- nominal 180°-phase at resonance
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- Passivation layer: Protec

# Terminals

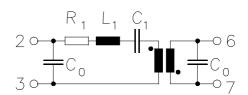
Ni, gold plated



#### Dimensions in mm, approx. weight 0,1 g

#### **Pin configuration**

Input / Ouptput
Output / Input
Ground (Input / Output)
Ground (Output / Input)
Ground (case)



Туре	Ordering code	Marking and Package	Packing
		according to	according to
R2711	B39871-R2711-U310	C61157-A7-A56	F61074-V8169-Z000

Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

Operable temperature range	T <sub>A</sub>	-45/+85	°C	
Storage temperature range	T <sub>stg</sub>	-45/+85	°C	
DC voltage	V <sub>DC</sub>	0	V	between any terminals
Source power	Ps	0	dBm	



R2711 868,35 MHz

# SMD Ceramic package QCC8C

May 12, 2003



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Resonator 868,35 MHz					5 MHz
Data Sheet					
Characteristics					
Reference temperature: Terminating Source impedance: Terminating Load impedance:	$T_{A} = 25 ° \Omega$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$				
		min.	typ.	max.	
Center frequency	f <sub>c</sub>	868,25	868,35	868,45	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$\alpha_{min}$		7,0	9,0	dB
Phase at f <sub>c</sub>	φ	—	130	_	°el.
Loaded quality factor	$Q_L$	3000	3600	_	
Unloaded quality factor	Q <sub>U</sub>	5500	6600	_	
Ageing of f <sub>c</sub>				-10/+40	ppm
Equivalent circuit elements					
Motional capacitance	C <sub>1</sub>	—	0,279	-	fF
Motional inductance	L <sub>1</sub>	—	120,4	-	μH
Motional resistance	R <sub>1</sub>	—	100	-	Ω
Input / Output capacitance	C <sub>0</sub>	—	1,9	—	pF
Temperature coefficient of frequency <sup>1)</sup>	TC <sub>f</sub>		-0,03	—	ppm/K <sup>2</sup>
Turnover temperature	T <sub>0</sub>	15		35	°C

<sup>1)</sup> 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	868,35 MHz

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This brochure replaces the previous edition.

**Data Sheet** 

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