

SAW Components

Data Sheet R 2709





SAW Components

Resonator

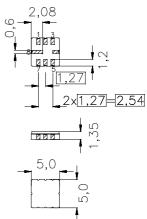
Data Sheet

Features

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

Terminals

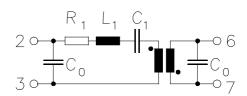
Ni, gold plated



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	
R2709	B39871-R2709-U310	C61157-A7-A56	F61074-V8070-Z000	

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T _A	-45/+85	°C	
Storage temperature range	T _{stg}	-45/+85	°C	
DC voltage	V _{DC}	0	V	between any terminals
Source power	Ps	0	dBm	



R 2709 868,30 MHz

SMD Ceramic package QCC8C



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Characteristics					
Reference temperature: Terminating Source impedance: Terminating Load impedance:	8				
		min.	typ.	max.	
Center frequency	f _c	868,10	868,30	868,50	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$lpha_{min}$	_	7,0	9,0	dB
Phase at f _c	φ	_	130	_	°el.
Loaded quality factor	Q_L	3000	3600	_	
Unloaded quality factor	Q _U	5500	6600	_	
Ageing of f _c		_	_	-10/+40	ppm
Equivalent circuit elements					
Motional capacitance	C ₁	_	0,279	_	fF
Motional inductance	L ₁	_	120,4	—	μH
Motional resistance	R ₁	_	100	—	Ω
Input / Output capacitance	C ₀		1,9		pF

 $TC_{\rm f}$

 T_0

15

-0,03

—

ppm/K²

°C

35

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 N



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Resonator	868,30 MHz

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Data Sheet

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