

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SAW Components

Data Sheet R 2710





SAW Components	R 2710
Resonator	311,063 MHz

Data Sheet

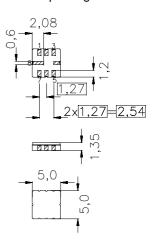
Features

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

Terminals

■ Ni, gold plated

SMD Ceramic package QCC8C



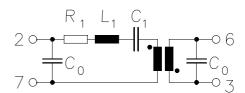
Dimensions in mm, approx. weight 0,1 g

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		
R 2710	B39311-R2710-U310	C61157-A7-A56	F61074-V8070-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-45/+85	°C	
Storage temperature range	$T_{\rm stg}$	-45/+85	°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	310,988	311,063	311,138	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	α_{min}	_	8,7	10,7	dB
Phase at f _c	φ	_	158	_	° el.
Loaded quality factor	Q_L	4200	7000	_	
Unloaded quality factor	Q_U	6000	10800	_	
Ageing of f _c		_	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	0,284	_	fF
Motional inductance	L_1	_	922	_	μН
Motional resistance	R_1	_	160	_	Ω
Input / Output capacitance	C_0	_	1,8	_	pF
Temperature coefficient of frequency 1)	TC _f	_	-0,03	_	ppm/K ²
Turnover temperature	T_0	10	_	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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