

SAW Components

Data Sheet R 2710



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SAW Components

Resonator

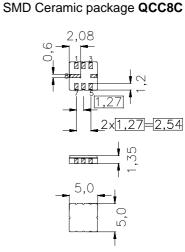
Data Sheet

Features

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

Terminals

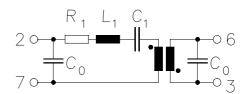
Ni, gold plated



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



R 2710 311,063 MHz



SAW Components					R 2710
Resonator				311,00	63 MHz
Data Sheet					
Characteristics					
Reference temperature: Terminating Source impedance: Terminating Load impedance:	$T_{A} = 25^{\circ} \Omega$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	2			
		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	—	μH
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 — 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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°C

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Resonator 311,063 MH	Resonator	311,063 MHz

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Data Sheet

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