

SAW Components

Data Sheet R 2704





SAW Components	R 2704
Resonator	315,00 MHz

Data Sheet

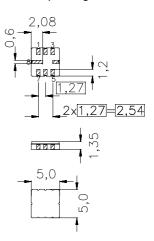
Features

- 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



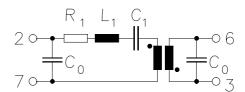
Dimensions in mm, approx. weight 0,1 g

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	
R2704	B39321-R2704-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	314,900	315,000	315,100	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$lpha_{min}$	_	9,4	11,0	dB
Phase at f _c	φ	_	160	_	° el.
Loaded quality factor	Q_L	5800	9000	_	
Unloaded quality factor	Q_U	9200	13600	_	
Ageing of f _c		_	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	0,196	_	fF
Motional inductance	L_1	_	1,302	_	μН
Motional resistance	R_1	_	195	_	Ω
Input / Output capacitance	C_0	_	1,3	_	pF
Temperature coefficient of frequency 1)	TC_{f}	_	-0,03	_	ppm/K ²
Turnover temperature	T_0	_	25	_	°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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