

# SAW Components

Data Sheet R2712





SAW Components	R2712
Resonator	804.50 MHz

**Data Sheet** 

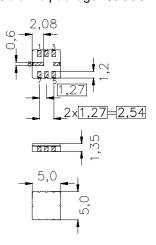
#### **Features**

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

#### **Terminals**

■ Ni, gold plated

## SMD Ceramic package QCC8C



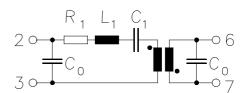
Dimensions in mm, approx. weight 0,1 g

#### 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
R2712	B39801-R2712-U310	C61157-A7-A56	F61074-V8169-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	$V_{\rm DC}$	0	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 <sub>c</sub>	804,25	804.5	804,75	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$\alpha_{min}$	_	6,3	8,3	dB
Phase at f <sub>c</sub>	φ		140		° el.
Loaded quality factor	$Q_L$	3000	3700		
Unloaded quality factor	$Q_U$	6300	7500	_	
Ageing of f <sub>c</sub>		_	_	-10/+40	ppm
Equivalent circuit elements					
Motional capacitance	$C_1$	_	0,293	_	fF
Motional inductance	$L_1$	_	133,8	_	μН
Motional resistance	$R_1$	_	91	_	Ω
Input / Output capacitance	$C_0$	_	1,6	_	pF
Temperature coefficient of frequency 1)	TC <sub>f</sub>	_	-0,03	_	ppm/K <sup>2</sup>
Turnover temperature	$T_0$	15	_	35	°C

<sup>&</sup>lt;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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