

# SAW Components

Data Sheet R 2707





SAW Components	R 2707
Resonator	303,825 MHz
Data Sheet	

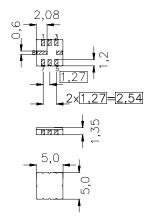
SMD Ceramic package QCC8C

## Features

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

#### Terminals

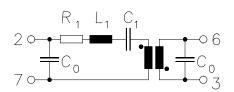
Ni, gold plated



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
R2707	B39301-R2707-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

### **Maximum ratings**

Operable temperature range	T <sub>A</sub>	-45/+85	°C	
Storage temperature range	T <sub>stg</sub>	-45/+85	°C	
DC voltage	V <sub>DC</sub>	12	V	between any terminals
Source power	Ps	0	dBm	



SAW Components Resonator 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			R 2707 25 MHz
		min.	typ.	max.	
Center frequency	f <sub>c</sub>	303,750	303,825	303,900	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$\alpha_{min}$	_	8,5	10	dB
Phase at f <sub>c</sub>	φ	_	150	-	°el.
Loaded quality factor	QL	4000	6700	_	
Unloaded quality factor	$Q_U$	6500	10000	-	
Ageing of f <sub>c</sub>		_	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	C <sub>1</sub>	-	0,307	-	fF
Motional inductance	L <sub>1</sub>	—	894	-	μH
Motional resistance	R <sub>1</sub>	-	160	-	Ω
Input / Output capacitance	C <sub>0</sub>	-	2,4	-	pF
Temperature coefficient of frequency <sup>1)</sup>	TC <sub>f</sub>	_	-0,03	_	ppm/K <sup>2</sup>

 $\mathsf{T}_0$ 

<sup>1)</sup> Temperature dependence of  $f_c$ :  $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$ 

Turnover temperature

3 May 09, 2001

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10

40

°C



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