

SAW Components

Data Sheet R 2707





SAW Components	R 2707
Resonator	303,825 MHz

Data Sheet

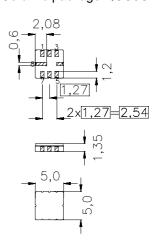
Features

- 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



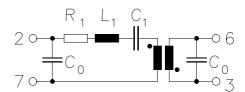
Dimensions in mm, approx. weight 0,1 g

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		
R2707	B39301-R2707-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	-



SAW Components R 2707

Resonator 303,825 MHz

Data Sheet

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	303,750	303,825	303,900	MHz
(center frequency between 3 dB points)				
$\textbf{Minimum insertion attenuation} \qquad \qquad \alpha_{\text{min}}$	n —	8,5	10	dB
Phase at f_c ϕ	_	150	_	° el.
Loaded quality factor Q _L	4000	6700	_	
Unloaded quality factor Q _U	6500	10000	_	
Ageing of f _c	_	_	±50	ppm
Equivalent circuit elements				
Motional capacitance C ₁	_	0,307	_	fF
Motional inductance L ₁	_	894	_	μH
Motional resistance R ₁	_	160	_	Ω
Input / Output capacitance C ₀	_	2,4	_	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 : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



SAW Components R 2707

Resonator 303,825 MHz

Data Sheet

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE AE PD P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2001. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.