

SAW Components

Data Sheet R 709





SAW Components	R 709
Resonator	403,55 MHz

Data Sheet

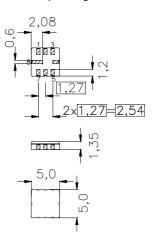
Features

- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators

Terminals

■ Ni, gold plated

Ceramic package QCC8C



Dimensions in mm, approx. weight 0,1 g

Pin configuration

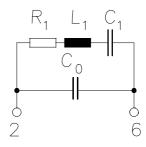
2	Input

6 Output, grounded in 1-port conf.

4,8 Ground (case)

1,3 float

5,7 float / ground



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
R 709	B39401-R 709-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	$P_{\rm s}$	0	dBm	



SAW Components R 709

Resonator 403,55 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 1)	$f_{\rm c}$	403,475	403,55	403,625	MHz
Minimum insertion attenuation	α_{min}	_	1,4	1,9	dB
Unloaded quality factor	Q_{U}	6000	11000	_	
Ageing of f _c		_	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,2	_	fF
Motional inductance	L_1	_	70,70	_	μΗ
Motional resistance	R_1	_	18	30	Ω
Parallel capacitance 2)	C_0	_	3,7	_	pF
Temperature coefficient of frequency 3)	TC _f	_	- 0,03	_	ppm/K ²
Turnover temperature	T_0	5	_	45	°C

¹⁾ Center frequency is defined as maximum of the real part of the admittance

 $^{^{2)}}$ If used in two port configuration (pin 2-input, pin 6-output) C_0 is reduced by approx. 0,3 pF.

³⁾Temperature dependence of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



SAW Components R 709
Resonator 403,55 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.