

SAW Components

Data Sheet R 709





SAW Components

Resonator

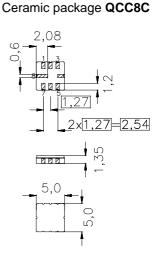
Data Sheet

Features

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

Terminals

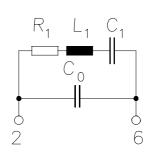
Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

2 Input
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 _{stg}	-45/+85	°C	
DC voltage	V _{DC}	12	V	between any terminals
Source power	$P_{\rm s}^{\rm s}$	0	dBm	



May 09, 2001

R 709 403,55 MHz



SAW Components		R 709
Resonator		403,55 MHz
Data Sheet		
Characteristics		
Reference temperature: Terminating source impedance:	$T_{A} = 25 \degree C$ $Z_{S} = 50 \Omega$	

Terminating source impedance:	$Z_{\rm S} = 50 \ \Omega$
Terminating load impedance:	$Z_{\rm L} = 50 \ \Omega$

		min.	typ.	max.	
Center frequency 1)	f _c	403,475	403,55	403,625	MHz
Minimum insertion attenuation	$lpha_{min}$	_	1,4	1,9	dB
Unloaded quality factor	Q_{U}	6000	11000	-	
Ageing of <i>f</i> _c				± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,2	_	fF
Motional inductance	L_1	_	70,70	_	μH
Motional resistance	R_1	_	18	30	Ω
Parallel capacitance ²⁾	C_0	—	3,7	_	pF
Temperature coefficient of frequency ³⁾	$TC_{\rm f}$	_	- 0,03	-	ppm/K
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) ${\it C}_0$ is reduced by approx. 0,3 pF.

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

3



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Resonator	403,55 MHz

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Data Sheet

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