

SAW Components

Data Sheet R 2702





SAW Components	R 2702
Resonator	418,05 MHz

Data Sheet

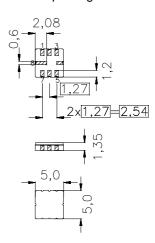
Features

- 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



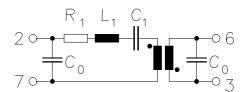
Dimensions in mm, approx. weight 0,1 g

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 according to	Packing according to
R2702	B39421-R2702-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	$V_{\rm DC}$	12	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 _c	417,975	418,050	418,125	MHz
(center frequency between 3 dB points)				
	_	9,2	10,5	dB
Phase at f_c ϕ	_	160	_	° el.
Loaded quality factor Q _L	5000	7200	_	
Unloaded quality factor Q _U	8000	10200	_	
Ageing of f _c	_	_	±50	ppm
Equivalent circuit elements				
Motional capacitance C ₁	_	0,15	_	fF
Motional inductance L ₁	_	943	_	μH
Motional resistance R ₁	_	240	_	Ω
Input / Output capacitance C ₀	_	2,2	_	pF
Temperature coefficient of frequency 1) TC_f	_	-0,03	_	ppm/K ²
Turnover temperature T_0	25		55	°C

¹⁾ 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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