

SAW Components

Data Sheet R 2702





Resonator R 2702
Resonator 418,05 MHz

Data Sheet

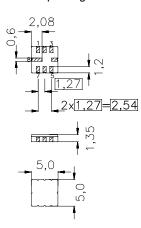
Features

- 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



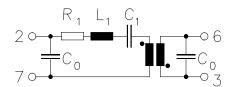
Dimensions in mm, approx. weight 0,1 g

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



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Characteristics

 $\begin{array}{ll} \mbox{Reference temperature:} & T_{\mbox{A}} = 25 \ ^{\circ}\mbox{C} \\ \mbox{Terminating Source impedance:} & Z_{\mbox{S}} = 50 \ \Omega \\ \mbox{Terminating Load impedance:} & Z_{\mbox{L}} = 50 \ \Omega \\ \end{array}$

		min.	typ.	max.	
Center frequency	f _c	417,975	418,050	418,125	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	α_{min}	_	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	_	μН
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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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE AE PD P.O. Box 80 17 09, D-81617 München

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