



SAW Components

Data Sheet R 771

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid pattern, overlaid with a large, stylized, and slightly blurred "EPCOS" logo. The logo is rendered in a light gray, almost white, color, giving it a three-dimensional appearance as if it's floating or attached to the globe. The background is dark and textured, with some light streaks and a sense of motion or depth.

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SAW Components

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Resonator

314,875 / 315,125 MHz

Data Sheet

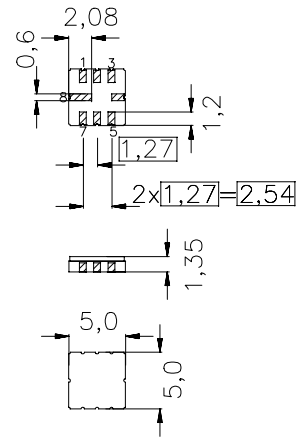
Ceramic package **QCC8C**

Features

- 1-port resonator (2 Resonators in 1 housing)
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- Protection layer: Protec

Terminals

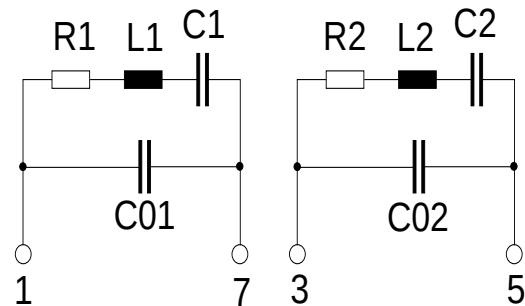
- Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

1	Input Reso 1
3	Input Reso 2
7	Output Reso 1
5	Output Reso 2
4,8	Ground (case)
2,6	float



Type	Ordering code	Marking and Package according to	Packing according to
R 771	B39311-R 771-U310	C61157-A7-A56	F61074-V8169-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-45/+120	°C	between any terminals
Storage temperature range	T_{stg}	-45/+120	°C	
DC voltage	V_{DC}	12	V	
Source power	P_s	0	dBm	



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Characteristics Resonator 1

Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\text{ }\Omega$
 Terminating Load impedance: $Z_L = 50\text{ }\Omega$

		min.	typ.	max.	
Center frequency Resonator 1¹⁾	f_c	314,825	314,875	314,925	MHz
Frequency offset Resonator 2 to Resonator 1	f_{offset}	200,0	250,0	300,0	KHz
Minimum insertion attenuation	α_{min}	—	1,3	1,6	dB
Unloaded quality factor	Q_U	9600	13200	—	
Ageing of f_c		—	—	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	2,39	—	fF
Motional inductance	L_1	—	106,94	—	μH
Motional resistance	R_1	—	16	22	Ω
Parallel capacitance ²⁾	C_{01}	—	3,1	—	pF
Temperature coefficient of frequency³⁾	TC_f	—	- 0,03	—	ppm/K ²
Turnover temperature	T_0	0	—	30	°C

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

2) If used in two port configuration (pin 1-input, pin 7-output) C_0 is reduced by approx. 0,3 pF.

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



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Characteristics Resonator 2

Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating Load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency Resonator 2¹⁾	f_c	315,075	315,125	315,175	MHz
Frequency offset Resonator 2 to Resonator 1	f_{offset}	200,0	250,0	300,0	KHz
Minimum insertion attenuation	α_{min}	—	1,3	1,6	dB
Unloaded quality factor	Q_U	9600	13200	—	
Ageing of f_c		—	—	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_2	—	2,38	—	fF
Motional inductance	L_2	—	107,32	—	μH
Motional resistance	R_2	—	16	22	Ω
Parallel capacitance ²⁾	C_{02}	—	3,1	—	pF
Temperature coefficient of frequency³⁾	TC_f	—	- 0,03	—	ppm/K ²
Turnover temperature	T_0	0	—	30	°C

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

2) If used in two port configuration (pin 3-input, pin 5-output) C_0 is reduced by approx. 0,3 pF.

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



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