



SAW Components

SAW resonator

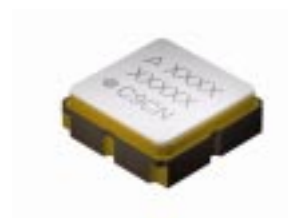
Short range devices

Series/type:	R962
Ordering code:	B39431R 962H110
Date:	December 20, 2012
Version:	2.1

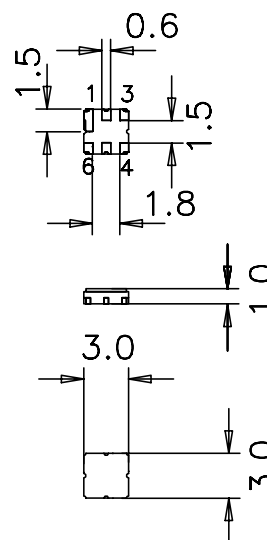
Data sheet

Application

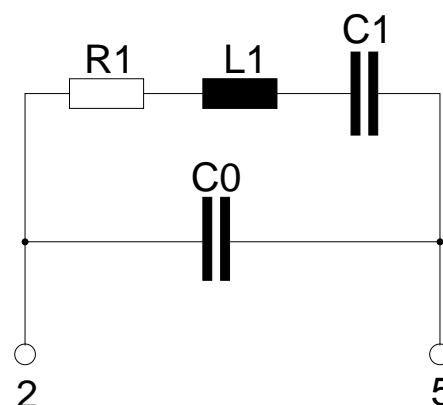
- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators


Features

- Package size 3.0 x 3.0 x 1.0 mm³
- Package code DCC6E
- RoHS compatible
- Approximate weight 0.037 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- Lead free soldering compatible with J - STD20C
- Passivation layer Elpas
- AEC-Q200 qualified component family
- **Electrostatic Sensitive Device (ESD)**


Pin configuration

- 2 Input
- 5 Output, grounded in 1-port conf.
- 1,3,4,6 Ground (case)



Data sheet

Characteristics

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 frequency¹⁾	f_C	433.90	433.95	434.00	MHz
Minimum insertion attenuation	α_{\min}	—	1.4	1.8	dB
Unloaded quality factor	Q_U	8300	12200	—	
Ageing of f_C		—	—	-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	1.76	—	fF
Motional inductance	L_1	—	76.32	—	μH
Motional resistance	R_1	—	18	26	Ω
Parallel capacitance ²⁾	C_0	—	2.4	—	pF
Temperature coefficient of frequency³⁾	TC_f	—	-0.032	—	ppm/K ²
Turnover temperature	T_0	10	—	30	°C

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

2) If used in two port configuration (pin 1 - input, pin 3 - output) C_0 is reduced by approx. 0.3 pF.

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

Maximum ratings

Operable temperature range	T	-40/+125	°C	
Storage temperature range	T_{stg}	-40/+125	°C	
DC voltage	V_{DC}	12	V	
Source power	P_S	0	dBm	

References

Type	R962
Ordering code	B39431R 962H110
Marking and package	C61157-A7-A143
Packaging	F61074-V8168-Z000
Date codes	L_1126
Soldering profile	S_6001
RoHS compatible	RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8 th , 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive") with due regard to the application of exemptions as per Annex III of the Directive in certain cases.

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com.

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