

SAW Components

SAW resonator Short range devices

Series/type: Ordering code:

R969 B39431R 969H110

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434.42 MHz

R969

SAW Components

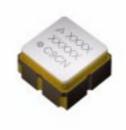
SAW resonator

Data sheet

SMD

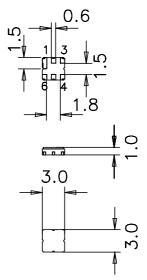
Application

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



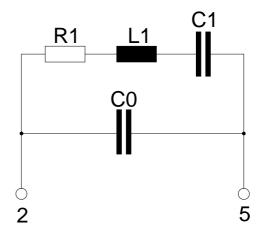
Features

- 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.
- 1,4 to be grounded
- 3,6 Ground (case)



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SAW resonator **Data sheet**

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Characteristics

Reference temperature:	Τ _Α	= 25 °C
Terminating source impedance:	Z _S	= 50 Ω
Terminating load impedance:	Z_L	= 50 Ω

		min.	typ.	max.	
Center frequency ¹⁾	f _C	434.37	434.42	434.47	MHz
Minimum insertion attenuation	α_{min}	—	1.3	1.9	dB
Unloaded quality factor	QU	8700	12700		
Ageing of f _C				-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C ₁	_	1.668		fF
Motional inductance	L ₁	_	80.47		μH
Motional resistance	R ₁	_	17	25	Ω
Parallel capacitance ²⁾	C ₀	_	2.0		pF
Temperature coefficient of frequency ³⁾	TC _f	—	-0.032		ppm/K ²
Turnover temperature	Τ ₀	10		30	°C

SMD

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 5 - output) C₀ 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	Т	-40/+125	°C
Storage temperature range	T _{stg}	-40/+125	°C
DC voltage	V _{DC}	12	V
Source power	Ps	0	dBm

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References

Туре	R969
Ordering code	B39431R 969H110
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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K905

434.42 MHz



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