

SAW Filters for Automotive Electronics

Series/Type: R922

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39321R0922H110		2013-05-10	2013-08-31	2013-11-30

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SAW Components R 922

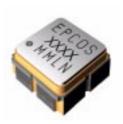
SAW resonator 321.00 MHz

Data sheet



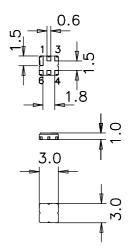
Application

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



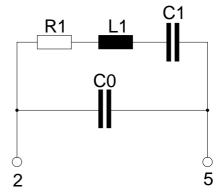
Features

- 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)





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Characteristics

 T_A = 25 °C Z_S = 50 Ω Z_L = 50 Ω Reference temperature: Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Center frequency ¹⁾	f _C	320.925	321.00	321.075	MHz
Minimum insertion attenuation	α_{min}	_	1.3	1.7	dB
Unloaded quality factor	Q_U	7700	11400	_	
Ageing of f _C		_	_	-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2.564	_	fF
Motional inductance	L_1	_	95.84	_	μΗ
Motional resistance	R_1	_	17	25	Ω
Parallel capacitance ²⁾	C_0	_	3.3	_	pF
Temperature coefficient of frequency ³⁾	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.

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	P_S	0	dBm

²⁾ If used in two port configuration (pin 2 - 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 - T₀)²)



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References

Туре	R 922
Ordering code	B39321-R 922-H110
Marking and package	C61157-A7-A143
Packaging	F61074-V8168-Z000
Date codes	L_1126
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment."

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

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For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.



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