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EPCOS (TDK) B39321R961H110

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SAW Components

SAW resonator

Short range devices

Series/type: Ordering code:

R 961 B39321R 961H110

Date: Version: July 21, 2010 2.1

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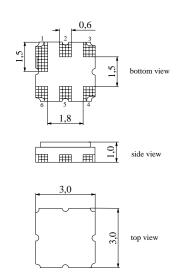
Application

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



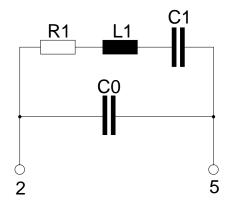
Features

- 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
- Electrostactic Sensitive Device (ESD)



Pin configuration

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







SAW Components					R 961
SAW resonator				31	5.00 MHz
Data sheet	$\leq M$				
Characteristics					
Reference temperature: Terminating source impedance: Terminating load impedance:	$T_{A} = 25 °C$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$				
		min.	typ.	max.	
Center frequency ¹⁾	f _C	314.95	315.00	315.05	MHz
Minimum insertion attenuation	$lpha_{min}$	_	1.4	1.9	dB
Unloaded quality factor	Q _U	7500	10700		
Ageing of f _C				-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C ₁		2.47		fF
Motional inductance	L ₁	—	103.6	—	μH
Motional resistance	R ₁	—	19	27	Ω
Parallel capacitance ²⁾	C ₀		3.2		pF
Temperature coefficient of frequency ³⁾	TC _f	—	-0.032		ppm/K ²

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) C₀ is reduced by approx. 0.3 pF. ³⁾ Temperature dependence of f_C : $f_C(T_A) = f_C(T_0) (1 + TC_f (T_A - T_0)^2)$

 T_0

15

°C

35

Maximum ratings

Turnover temperature

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





SAW Components		R 961
SAW resonator		315.00 MHz
Data sheet	SMD	

References

Туре	R 961
Ordering code	B39321R 961H110
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 maxi- mum 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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