

SAW Components

SAW resonator Short range devices

Series/type: Ordering code: R2906 B39921R2906H110

Date: Version: January 27, 2010 2.5

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SAW Components SAW resonator

915.00 MHz

R2906

Data sheet

Application

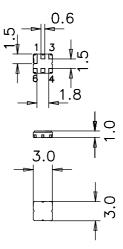
- 2-port resonator
- nominal 180°- phase at resonance
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators

SMD



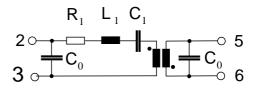
Features

- 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
- 3 Input (Ground)
- 5 Output
- 6 Output (Ground)
- 1,4 Ground (case)



Please read *cautions and warnings and important notes* at the end of this document.

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Characteristics					
Reference temperature: Terminating source impedance: Terminating load impedance:	$\begin{array}{l} T_{A} &= 25 \ ^{\circ}C \\ Z_{S} &= 50 \ \Omega \\ Z_{L} &= 50 \ \Omega \end{array}$				
		min.	typ.	max.	
Center frequency	f _C	914.75	915.00	915.25	MHz
Minimum insertion attenuation	$lpha_{min}$	_	7.5	8.5	dB
Phase at f _c	φ	_	124	_	°el.
Loaded quality factor	Q_L	2500	2900	_	
Unloaded quality factor	QU	4200	4700	—	
Ageing of f _C				-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C ₁	_	0.311	_	fF
Motional inductance	L ₁	_	97.15	_	μH
Motional resistance	R ₁	—	109	_	Ω
Parallel capacitance	C ₀	_	1.8	_	pF
Temperature coefficient of frequency ¹⁾	TC _f		-0.032		ppm/K ²
Turnover temperature	T ₀	30		60	°C

¹⁾ 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	-45/+125	°C
Storage temperature range	T _{stg}	-45/+125	°C
DC voltage	V _{DC}	12	V
Source power	P_S	0	dBm

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SAW Components **SAW** resonator

R2906 915.00 MHz

Data sheet

SMD

References

Туре	R2906
Ordering code	B39921R2906H110
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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Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.

Please read cautions and warnings and important notes at the end of this document.



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