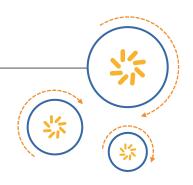


RF360 Europe GmbH

A Qualcomm - TDK Joint Venture



SAW Components

SAW resonator

Short range devices

Series/type: R2906

Ordering code: B39921R2906H110

Date: January 27, 2010

Version: 2.5

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SAW Components R2906

SAW resonator 915.00 MHz

Data sheet



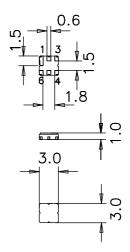
Application

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



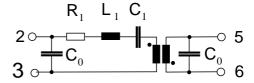
Features

- 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
- Output (Ground)
- 1,4 Ground (case)





SAW Components R2906

SAW resonator 915.00 MHz

Data sheet = MD

Characteristics

 $\begin{array}{ll} \mbox{Reference temperature:} & T_{\mbox{A}} = 25 \ ^{\circ}\mbox{C} \\ \mbox{Terminating source impedance:} & Z_{\mbox{S}} = 50 \ \Omega \\ \mbox{Terminating load impedance:} & Z_{\mbox{L}} = 50 \ \Omega \\ \end{array}$

		min.	typ.	max.	
Center frequency	f _C	914.75	915.00	915.25	MHz
Minimum insertion attenuation	α_{min}	_	7.5	8.5	dB
Phase at f _c	φ	_	124	_	° el.
Loaded quality factor	Q_L	2500	2900	_	
Unloaded quality factor	Q_U	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	_	μΗ
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	Ps	0	dBm



SAW Components		R2906
SAW resonator		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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