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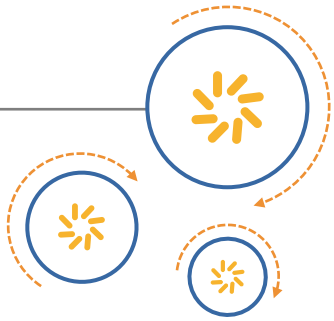
A Qualcomm – TDK Joint Venture



SAW Components

SAW resonator

Short range devices

Series/type:	R2906
Ordering code:	B39921R2906H110
Date:	January 27, 2010
Version:	2.5

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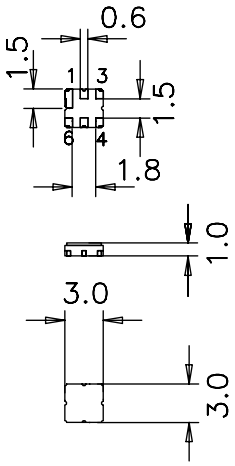
Data sheet SMD

Application

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

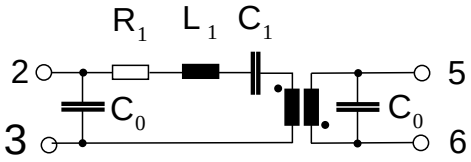
Features

- Package size 3.0 x 3.0 x 1.0 mm³
- Package code DCC6E
- RoHS compatible
- Approximate weight 0.037 g
- Package for **S**urface **M**ount **T**echnology (**SMT**)
- Ni, gold-plated terminals
- Lead free soldering compatible with J - STD20C
- Passivation layer Elpas
- AEC-Q200 qualified component family
- **E**lectrostactic **S**ensitive **D**evice (**ESD**)



Pin configuration

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



Data sheet SMD

Characteristics

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

		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	—	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	T	–45/+125	°C	
Storage temperature range	T_{stg}	–45/+125	°C	
DC voltage	V_{DC}	12	V	
Source power	P_S	0	dBm	

References

Type	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 maximum concentration values for certain hazardous substances in electrical and electronic equipment."

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