



# ***SAW Components***

## ***Data Sheet***

### ***CQTSR318M00.02***

Customer' s Approval Certificate	
Complies with Directive 2002/95/EC (RoHS)	
Please return this Page Via email as a certification of Your approval	
Checked & Approval by:	Date:

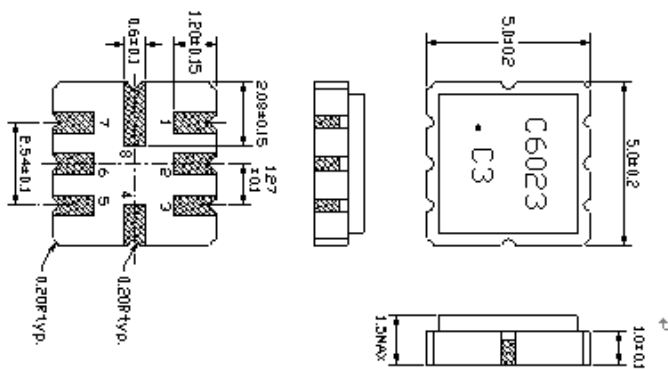
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**1. Package Dimension**



Pin No.	Function
2	Input
6	Output
4,8	Ground
other	NC

**2. Marking**

C6023	(1) Model code
C3	(2) Date code

C	3
Month code	Last figure of year

Month	1	2	3	4	5	6	7	8	9	10	11	12
Month code	A	B	C	D	E	F	G	H	I	J	K	L

CHINA QUARTZ TECHNOLOGY

**3. Performance**

**3.1 Application**

One-port SAW Resonator for Wireless Remote Controller.

Center frequency: 318.00MHz

## 3.2 Maximum Rating

Rating		Value	Unit
Operating Temperature Range	$T_A$	-40 ~ +85	°C
Storage Temperature Range	$T_{stg}$	-45 ~ +85	°C
DC Voltage (between any Terminals)	$V_{DC}$	10	V
RF Power (in <i>BW</i> )	$P$	10	dBm
ESD Voltage (HB)	$V_{ESD}$	150	V

## 3.3 Electronic Characteristics

Item	Unit	Minimum	Typical	Maximum
Center Frequency ( $f_0$ )	MHz	317.925	318.00	318.075
Insertion Loss	dB	—	1.3	2.0
Quality Factor	—	—	—	—
Unloaded Q	—	—	16,900	—
50Ω Loaded Q	—	—	1,300	—
Temperature Stability	—	—	—	—
Turnover Temperature	°C	10	25	40
Frequency Temperature Coefficient	ppm/°C <sup>2</sup>	—	0.032	—
Frequency Aging	ppm/yr	—	<±10	—
DC Insulation Resistance	MΩ	1.0	—	—
RF Equivalent RLC Model	—	—	—	—
Motional Resistance $R_1$	Ω	—	11	29
Motional Inductance $L_1$	μH	—	82	—
Motional Capacitance $C_1$	fF	—	3.0	—
Shunt Static Capacitance $C_0$	pF	3.1	3.4	3.7

## 3.4 Test Circuit

