



***SAW Components***  
***Data Sheet***  
***CQTSR433M92.02***

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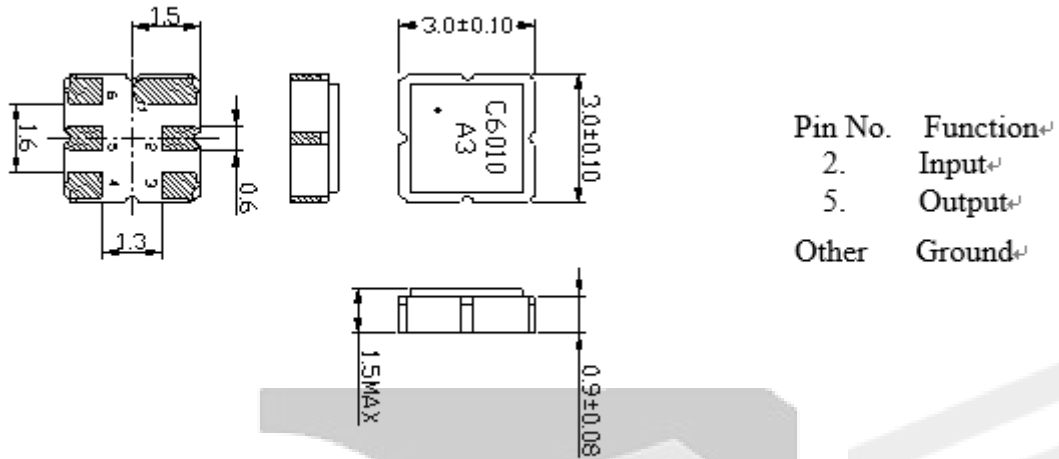
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### 1. Package Dimension



Pin No.	Function
2.	Input
5.	Output
Other	Ground

### 2. Marking

C6010	(1) Model code
A3	(2) Date code

A	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

### 3. Performance

#### 3.1 Application

One-port SAW Resonator for Wireless Remote Controller.

Center frequency: 433.92MHz

## 3.2 Maximum Rating

Rating		Value	Unit
Operating Temperature Range	$T_A$	-40 ~ +125	°C
Storage Temperature Range	$T_{stg}$	-45 ~ +125	°C
DC Voltage (between any Terminals)	$V_{DC}$	10	V
RF Power (in BW)	$P$	10	dBm
ESD Voltage (HB)	$V_{ESD}$	150	V

## 3.3 Electronic Characteristics

Characteristic		Sym	Minimum	Typical	Maximum	Unit
Center Frequency (+25°C)	Absolute Frequency	$f_c$	433.845	433.92	433.995	MHz
	Tolerance from 433.920 MHz	$\Delta f_c$	-	-	±75	kHz
Insertion Loss		IL	-	0.7	1.1	dB
Quality Factor	Unloaded Q	$Q_U$	9000	11500	-	
	50 $\Omega$ Loaded Q	$Q_L$	-	NC	-	
Temperature Stability	Turnover Temperature	$T_0$	15		30	°C
	Turnover Frequency	$f_0$	-	$f_c$	-	kHz
	Frequency Temperature Coefficient	FTC	-	0.032	-	ppm/°C <sup>2</sup>
Frequency Aging Absolute Value during the First Year	$ f_A $	-	≤ 10	-	-	ppm/y r
DC Insulation Resistance Between Any Two Terminals			1.0	-	-	M $\Omega$
RF Equivalent RLC Model	Motional Resistance	$R_1$	-	9.8	-	$\Omega$
	Motional Inductance	$L_1$	-	40.8	-	$\mu$ H
	Motional Capacitance	$C_1$	-	3.3	-	fF
	Shunt Static Capacitance	$C_0$	-	3.56	-	pF

## 3.4 Test Circuit

