



***SAW Components***  
***Data Sheet***  
***CQTSR319M50.01***

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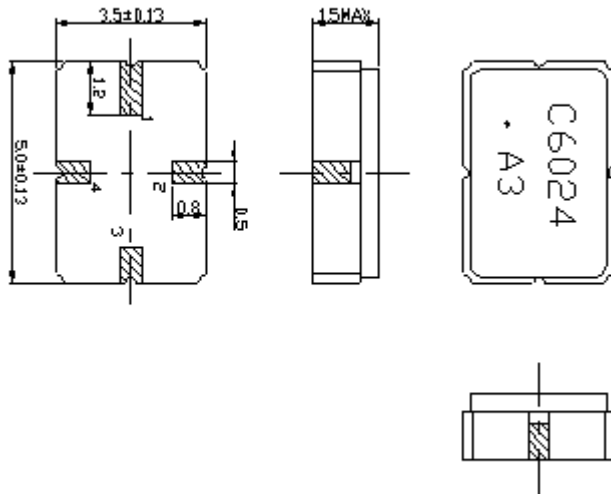
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**1. Package Dimension**



Pin No.	Function
2	Input
4	Output
1,3	Case Ground

**2. Marking**

C6024	(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: 319.5MHz

### 3.2 Maximum Rating

Rating		Value	Unit
Operating Temperature Range	$T_A$	-40 ~ +85	°C
Storage Temperature Range	$T_{stg}$	-45 ~ +125	°C
DC Voltage (between any Terminals)	$V_{DC}$	10	V
RF Power (in <i>BW</i> )	$P$	0	dBm
ESD Voltage (HB)	$V_{ESD}$	150	V

### 3.3 Electronic Characteristics

Item	Unit	Minimum	Typical	Maximum
Center Frequency ( $f_0$ )	MHz	319.425	319.50	319.575
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	—	16	29
Motional Inductance $L_1$	μ H	—	85	—
Motional Capacitance $C_1$	fF	—	2.7	—
Shunt Static Capacitance $C_0$	pF	2.3	2.5	2.7

### 3.4 Test Circuit

