



SAW Components

Data Sheet

CQTSR310M00.02

Customer' s Approval Certificate	
Complies with Directive 2002/95/EC (RoHS)	
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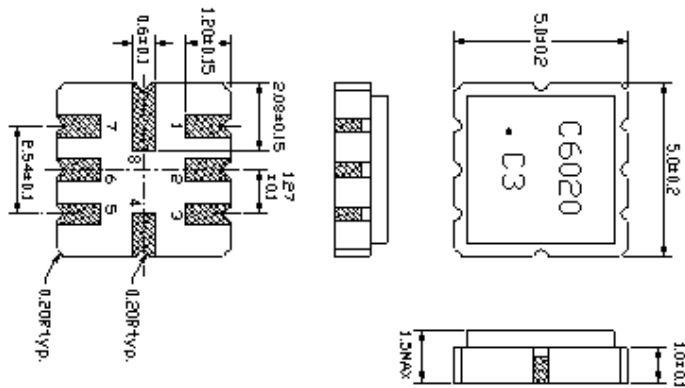
Hangzhou Freq-control Electronics Technology Co.,Ltd.

TEL:0086-571-85803723

FAX:0086-571-85803724

sales@csimc-freqcontrol.com

1. Package Dimension



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

2. Marking

C6020	(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

3. Performance

3.1 Application

One-port SAW Resonator for Wireless Remote Controller.

Center frequency: 310.00MHz

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 BW)	P	10	dBm
ESD Voltage (HB)	V_{ESD}	150	V

3.3 Electronic Characteristics

Item	Unit	Minimum	Typical	Maximum
Center Frequency (f_0)	MHz	309.925	310.00	310.075
Insertion Loss	dB	—	1.3	2.0
Quality Factor	—	—	—	—
Unloaded Q	—	—	11,800	—
50Ω Loaded Q	—	—	3,500	—
Temperature Stability	—	—	—	—
Turnover Temperature	°C	37	52	67
Frequency Temperature Coefficient	ppm/°C ²	—	0.032	—
Frequency Aging	ppm/yr	—	<±10	—
DC Insulation Resistance	MΩ	1.0	—	—
RF Equivalent RLC Model	—	—	—	—
Motional Resistance R_1	Ω	—	43	78
Motional Inductance L_1	μH	—	260	—
Motional Capacitance C_1	fF	—	2.2	—
Shunt Static Capacitance C_0	pF	2.1	2.4	2.7

3.4 Test Circuit

