SAW Components

Data Sheet

CQTSR433M92.03

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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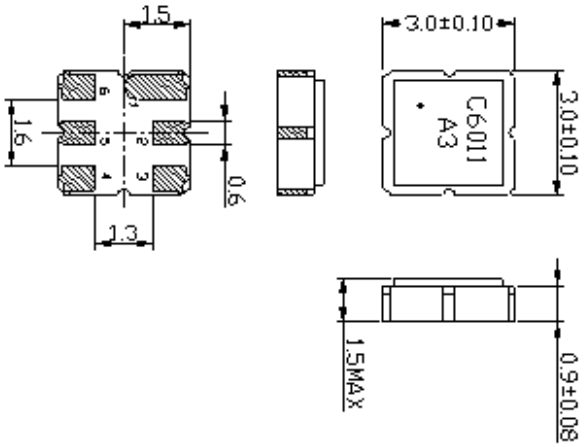
1. Package Dimension



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

2. Marking

A	3

C6011	(1) Model code
A3	(2) Date code
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℃)	Absolute Frequency	f_C	433.845	433.92	433.995	MHz
	Tolerance from 433.920 MHz	Δf_C	-	-	±75	kHz
Insertion Loss		IL	-	1.6	2.0	dB
Quality Factor	Unloaded Q	Q_U	-	10200	-	
	50 Ω Loaded Q	Q_L	-	1700	-	
Temperature Stability	Turnover Temperature	T_0	0		25	℃
	Turnover Frequency	f_0	-	f_C	-	kHz
	Frequency Temperature Coefficient	FTC	-	0.032	-	ppm/℃²
Frequency Aging Absolute Value during the First Year		$\|f_A\|$	-	≤ 10	-	ppm/yr
DC Insulation Resistance Between Any Two Terminals			1.0	-	-	MΩ
RF Equivalent RLC Model	Motional Resistance	R_1	-	20	26	Ω
	Motional Inductance	L_1	-	74.8	-	μH
	Motional Capacitance	C_1	-	1.8	-	fF
	Shunt Static Capacitance	C_0	1.65	1.95	2.25	pF

3.4 Test Circuit