



SAW Components

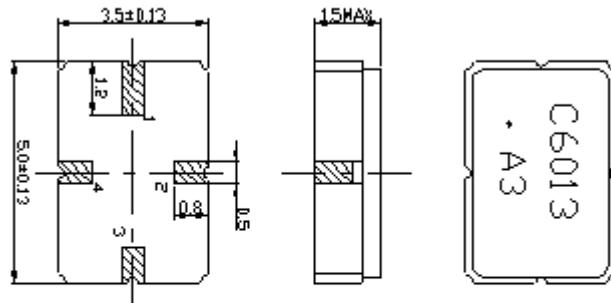
Data Sheet

CQTSR868M35.01

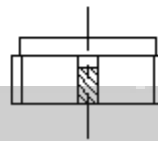
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1. Package Dimension



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



2. Marking

A	3
C6013	(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: 868.35MHz

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 BW)	P	0	dBm
ESD Voltage (HB)	V_{ESD}	150	V

3.3 Electronic Characteristics

Item	Unit	Minimum	Typical	Maximum
Center Frequency (f_0)	MHz	868.200	868.35	868.500
Insertion Loss	dB	—	1.7	2.3
Quality Factor	—	—	—	—
Unloaded Q	—	—	8,300	—
50Ω Loaded Q	—	—	1,500	—
Temperature Stability	—	—	—	—
Turnover Temperature	°C	10	20	30
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	—	22	30
Motional Inductance L_1	μH	—	33.6	—
Motional Capacitance C_1	fF	—	1.0	—
Shunt Static Capacitance C_0	pF	2.3	2.6	2.9

3.4 Test Circuit

