

产 品 规 格 书

Product Specification

CUSTOMER	客户:	_____
CUSTOMER PN	客户 PN:	_____
HANG CRYSTAL P/N	杭晶物料编码:	SR73S3-433.920-F50IL1.5BL
MODEL	产品型号:	SAW Resonator 7.5x3.5
NOMINAL FREQUENCY	频率:	433.920MHz
ISSUE DATE	日期:	2020 / 06 / 22

CUSTOMER'S APPROVAL

客户确认

(PLEASE RETURN A COPY WITH APPROVAL)
(请将确认的复印件返回我司)

APPROVED

QA

MB.

James J

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Revision	Description / ECN	Prepared	Approved	Date
1	Initial release	MB.	James Jiang	2020-06-22
2	Not issued			
3	Not issued			
4	Not issued			

1. ELECTRICAL SPECIFICATIONS

1.1 Maximum Rating

Rating	SYM	value	Unit
RF Input Power	P	10	dBm
DC voltage	V _{DC}	10	V
Operating Temperature Range	T _A	-40 ~ +85	°C
Storage Temperature Range	T _{stg}	-45 ~ +85	°C
ESD voltage(MM)	V _{MM}	50	V
ESD voltage(HBM)	V _{HBM}	175	V

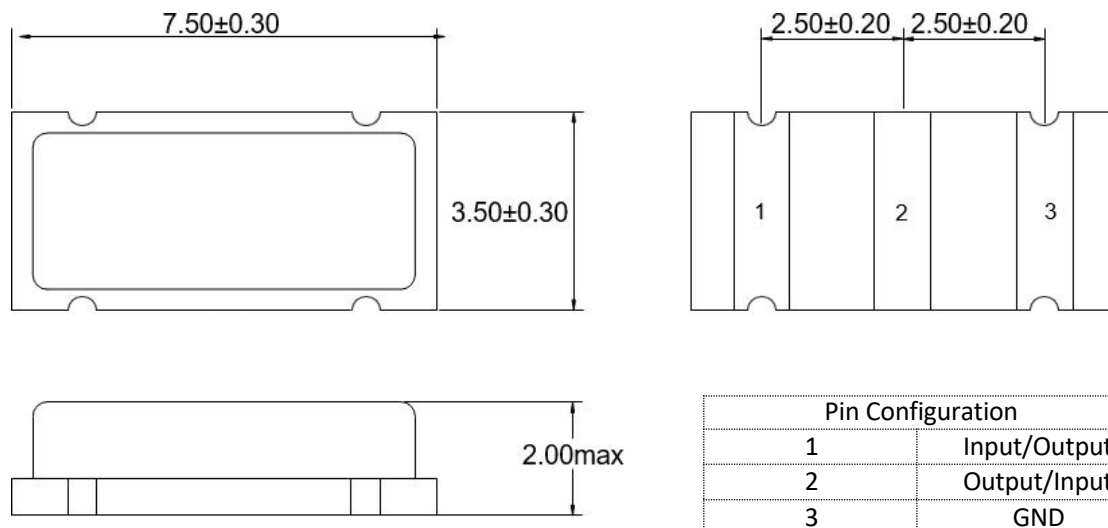
1.2 Electronic Characteristics

Item	Unites	Min	Typical	Max
Center Frequency	MHz	433.845	433.920	433.995
Tolerance from 433.920MHz	KHz	+150kHz		+200kHz
Insertion Loss	dB		1.5	2.2
Anti-resonance	dB	24	25	

*Typical value at 25±2deg.C



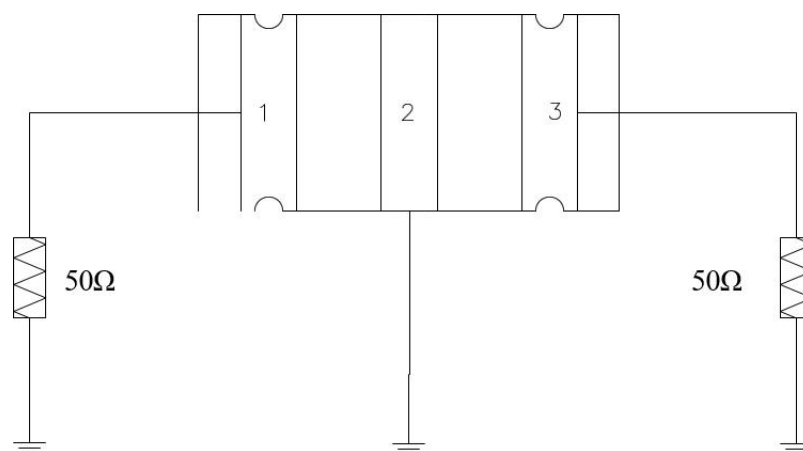
2、DIMENSIONS (Unit: mm)



3、PRODUCT MARKING

TBD

4、Test Circuit

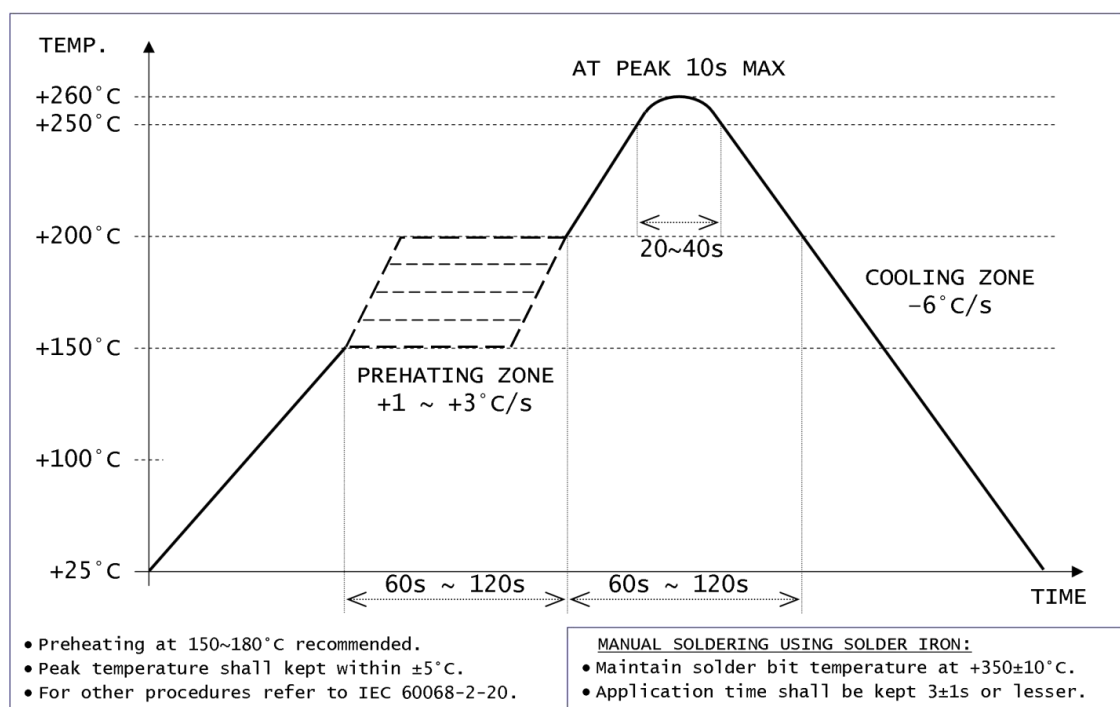


5. Reliability Characteristics

No.	Item	Condition to be satisfied
1	High Temp. Storage	①Test temperature: $+85^{\circ}\text{C}\pm 3^{\circ}\text{C}$ ②Duration time: 500 hours ③Restore time: 2 hours at the room temperature (25°C)
2	Low Temp. Storage	①Test temperature: $-40^{\circ}\text{C}\pm 3^{\circ}\text{C}$ ②Duration Time: 500 hours ③Restore time: 2 hours at the room temperature (25°C)
3	High Temp. High Humidity Storage	①Test temperature: $+85^{\circ}\text{C}\pm 3^{\circ}\text{C}$ ②Test Humidity: $85\%\pm 3\%$ ③Duration Hours: 240 hours ④Restore time: 2 hours at the room temperature (25°C)
4	Temperature cycling	①Test Temperature: $-40^{\circ}\text{C}\sim +85^{\circ}\text{C}$ ②Time for each step: $\geq 30\text{min}$ ③Conversion time: $\leq 1\text{min}$ ④Cycle times: 100 times ⑤Restore time: 24 hours at the room temperature (25°C)
5	Soldering heat resistance	①Reflow with $260\pm 5^{\circ}\text{C}$, $10\pm 1\text{s}$ (Solder Pot) ②Restore time: 2 hours at the room temperature (25°C)
6	Solderability test	Soldering method and temperature: lead-free reflow soldering, $+255\pm 5^{\circ}\text{C}$

6. RECOMMENDED SOLDERING INFORMATION

RECOMMENDED REFLOW SOLDER PROFILE – PEAK TEMPERATURE UP TO $+260^{\circ}\text{C}$



7. REMARKS

- 7.1 Please be certain not to apply voltage above the rated voltage of SAW components.
- 7.2 Please be sure that the component operate within the specified operating temperature range.
- 7.3 Abrupt temperature change shall be avoided because deterioration of the component characteristics can occur under that situation.
- 7.4 Please be careful of soldering temperature when soldering.
- 7.5 Please do not place soldering iron on the body of components.
- 7.6 Please be careful not to subject the terminals or leads of components to excessive force.