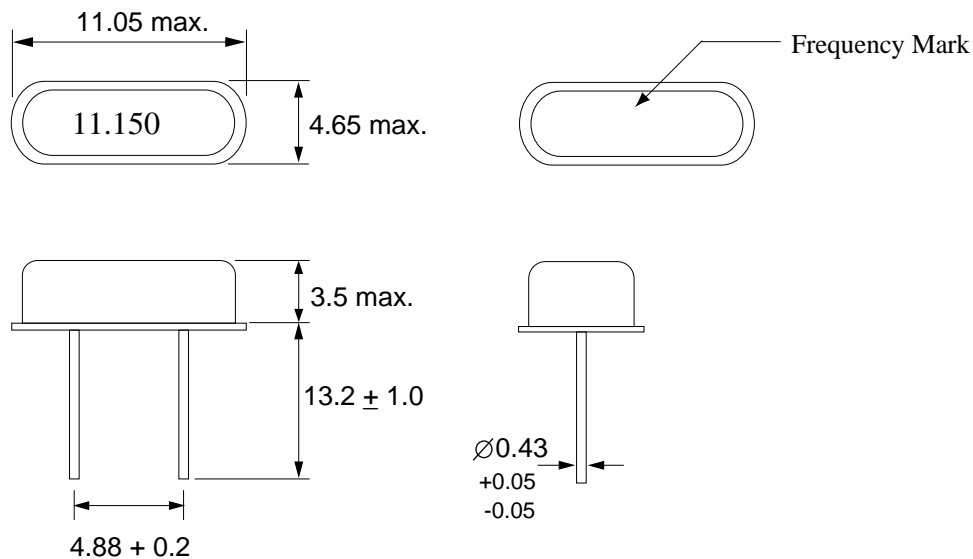


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SPECIFICATION OF CRYSTAL UNIT

1. Nominal Frequency	11.15 MHz
2. Holder Type	HC49S
3. Frequency Tolerance	± 20 ppm at 25°C
4. Equivalent Series Resistance	30 Ohm max.
5. Insulation Resistance	500M Ohm @ 100V_{DC}
6. Operating Temperature Range	$-10 \sim +60^{\circ}\text{C}$
7. Storage Temperature Range	$-20 \sim +80^{\circ}\text{C}$
8. Temperature Tolerance	± 30 ppm at $-10 \sim +70^{\circ}\text{C}$
9. Loading Capacitance	12pF
10. Drive Level	100uW
11. Aging	± 5 ppm/ year
12. Oscillation Mode	Fundamental

DIMENSIONS (mm)



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SPECIFICATION OF CRYSTAL UNIT

No.	Item	Condition of Test
1	Drop Test	Dropping from 75cm height, 3 times on hard wooden board.
2	Vibration Test	30 minutes in each direction 10 to 55 Hz, amplitude 0.2mm Directions: X, Y, Z
3	Solderability	The dipping surface of the lead shall be at least 95% Covered with a Continuous new solder coating. Condition of test: Temperature of solder bath: 230°C \pm 5°C Dipping time: 5 sec.
4	Leakage	No bubbles coming up from interior of the holder. Insulation resistance: More than 500M Ohm Condition of test: Temperature of hot water: 90°C ~ 95°C Test time: 3 min.

REVIEW OF SPECIFICATIONS

- 1) When something get doubtful with this specifications, we shall jointly work to get an agreement.
- 2) This specification limits the quality of the components as a single unit. Please insure the component is thoroughly evaluated in your application circuit.
- 3) Please do not use this component in any application that deviates from its intended use as noted within the specification. It may cause any mishaps.
- 4) Please return one of this specification after your signature of acceptance. In case of no return within 3 months from submission date. This specification should be treated as accepted.



Prepared by: Leo Wong
DOC. No: HC49S