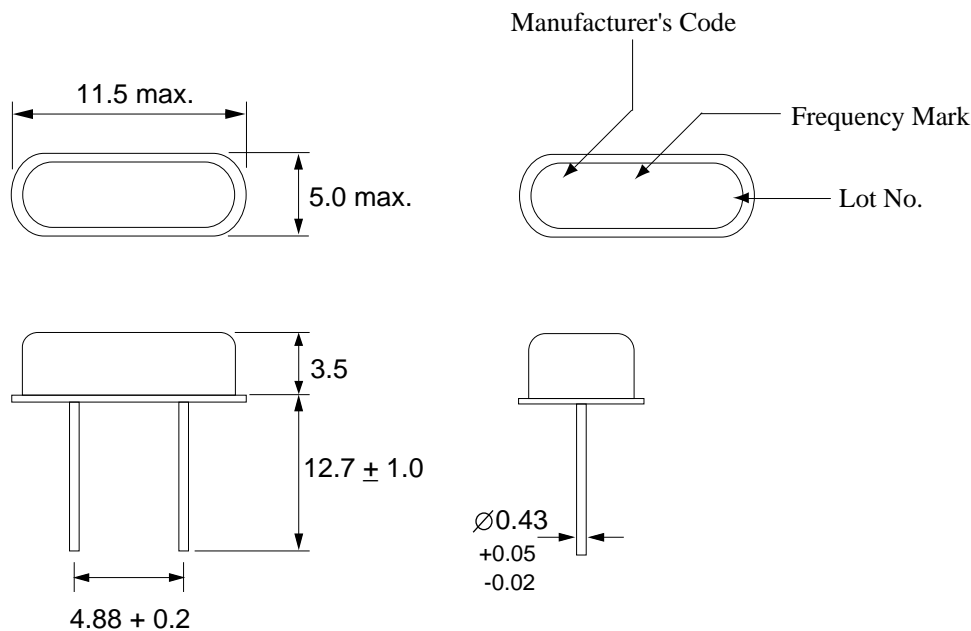


# MIEC

## SPECIFICATION OF CRYSTAL UNIT

1. Nominal Frequency	4.0 MHz
2. Holder Type	HC49S
3. Frequency Tolerance	$\pm 30$ ppm at $25^{\circ}\text{C}$
4. Equivalent Resistance	100 Ohm max.
5. Insulation Resistance	500M Ohm @ $100\text{V}_{\text{DC}}$
6. Operating Temperature Range	$-10 \sim +60^{\circ}\text{C}$
7. Storage Temperature Range	$-20 \sim +80^{\circ}\text{C}$
8. Temperature Tolerance	$\pm 50$ ppm at $-20 \sim +80^{\circ}\text{C}$
9. Loading Capacitance	20pF
10. Drive Level	100uW
11. Aging	$\pm 5$ ppm/ year
12. Oscillation Mode	Fundamental

### DIMENSIONS (mm)



Prepared by: Leo Wong  
Checked By: \_\_\_\_\_  
DOC. No: HC49S-4M20pF30ppmF(W)

# MIEC

## SPECIFICATION OF CRYSTAL UNIT

No.	Item	Condition of Test
1	Shock Test	Dropping from 75cm height, 3 times on firm wood Variation: Frequency drift $< \pm 20\text{ppm}$ Resistance drift $< + 10 \text{ Ohm}$
2	Vibration Test	30 minutes in each direction 10 to 55 Hz, amplitude 0.7 ~ 0.9mm Variation: Frequency drift $< \pm 20\text{ppm}$
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: $230^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 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: $90^{\circ}\text{C} \sim 95^{\circ}\text{C}$ Test time: 3 min.

### REVIEW OF SPECIFICATIONS

When something get doubtful with this specifications, we shall jointly work to get an agreement.



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DOC. No: HC49S