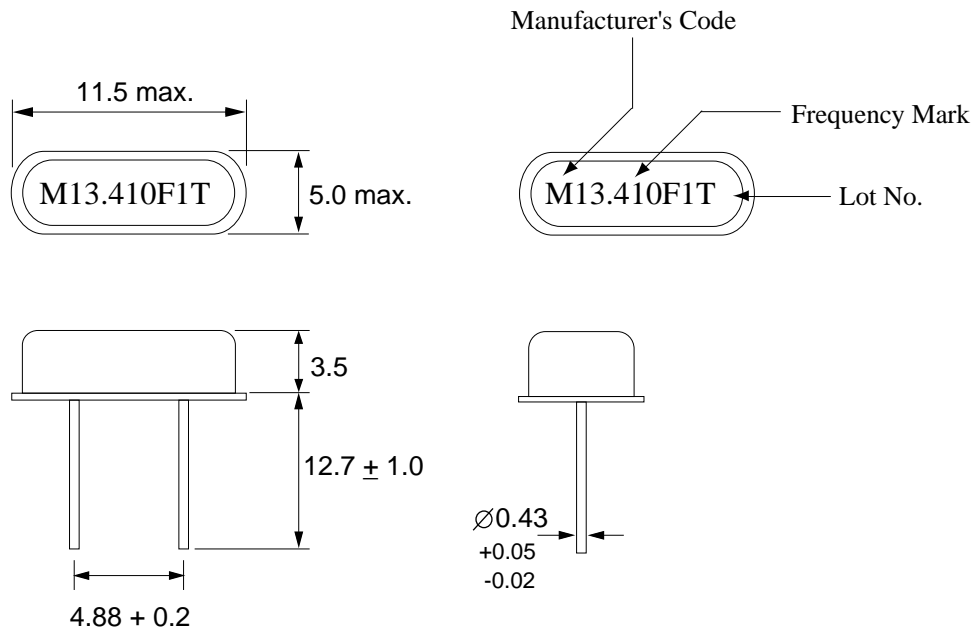


# MIEC

## SPECIFICATION OF CRYSTAL UNIT

1. Nominal Frequency	13.410156MHz
2. Holder Type	HC49S
3. Frequency Tolerance	$\pm 30$ ppm at 25°C
4. Equivalent Resistance	40 Ohm max.
5. Insulation Resistance	500M Ohm @100V <sub>DC</sub>
6. Operating Temperature Range	-10 ~ +60°C
7. Storage Temperature Range	-20 ~ +80°C
8. Temperature Tolerance	$\pm 30$ ppm at -20 ~ +80°C
9. Loading Capacitance	16pF
10. Drive Level	100uW
11. Aging	$\pm 2$ ppm/ year
12. Oscillation Mode	Fundamental

### DIMENSIONS (mm)



Prepared by: Leo Wong

Checked By: \_\_\_\_\_

DOC. No: HC49S-13\_410156M16pF30ppmF

# 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.



Prepared by: Leo Wong  
Checked By: \_\_\_\_\_  
DOC. No: HC49S