



CRYSTAL UNIT

1. SCOPE

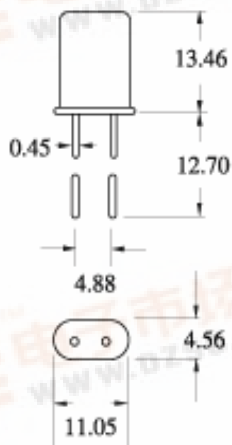
This specification shall cover the characteristics of crystal unit with

HC-49/U 3.579545—27.00MHz

2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
HOLDER TYPE	HC-49/U
NOMINAL FREQUENCY	3.579545—27.00MHz
LOAD CAPACITANCE	10PF to series
OSCILLATION MODE	Fundamental
FREQUENCY TOLERANCE AT 25°C ±2°C	± 30PPM
EQUIVALENT SERIES RESISTANCE	Based on frequency
DRIVE LEVEL	0.5 MW
OPERATING TEMPERATURE RANGE	-20°C~+70°C
FREQUENCY STABILITY	± 30PPM
SHUNT CAPACITANCE	<7PF
AGING	± 5PPM/YEAR
INSULATION RESISTANCE	>500MΩ at DC 100V

3. DIMENSION





4. MECHANICAL SPECIFICATION

1) Terminal Strength

* Lead pulling test

Conditions: Load 907.2 gram
Direction To the downward
Duration of applied force 5 seconds
Results: There should be no distortion in appearance.

* Lead bending test

Conditions: Load 453.6 gram
Bending angle 90° to normal position
Rate of bending 3 seconds in each cycle
Number of bending 3
Results: There should be no distortion in appearance.

2) Lead solder ability test

Conditions: Dipping in solder($+230^\circ\text{C} \pm 5^\circ\text{C}$) for 5 seconds
Results: More than 95% of surface being tested should be coated uniformly with solder.

3) Vibration test

Conditions: Frequency 10 – 55Hz
Amplitude 0.762mm
Sweep 1.0 minute
Duration 2 hours
Results: Frequency and wave form of tested products must remain within specifications.

4) Drop test

Conditions: Method of drop Natural drop
Dropping floor Hard wood board
Height 30cm
Number of drops 3 times
Results: Frequency and wave form of tested products must remain within specifications.

5. ENVIRONMENTAL SPECIFICATION