



CRYSTAL UNIT

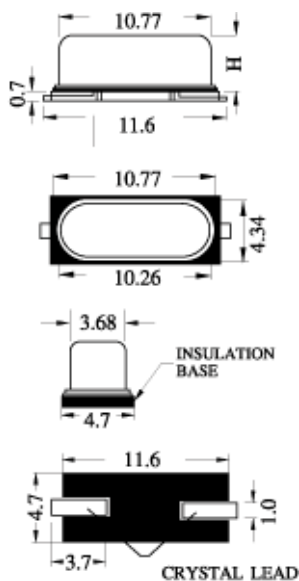
1. SCOPE

This specification shall cover the characteristics of crystal unit with
HC-49/S SMD 3.579545—27.00MHz

2. ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
HOLDER TYPE	HC-49/S SMD
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	0.5MW
OPERATING TEMPERATURE RANGE	-10°C ~+60°C
FREQUENCY STABILITY	± 30PPM
SHUNT CAPACITANCE	7PF max
AGING	± 5PPM/YEAR
INSULATION RESISTANCE	>500M Ω at DC 100V

3. Dimension (mm)



H=4.0mm

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 solderability 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.

