



HC-49/S

CRYSTAL UNIT

1. SCOPE

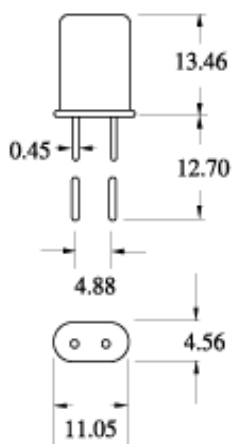
This specification shall cover the characteristics of crystal unit with

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	>500M Ω 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

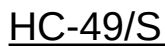
Conditions:	Dipping in solder(+230°C ± 5°C)for 5 seconds
Results:	More than 95% of surface being tested should be coated uniformly with solder.

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.	



* Temperature cycling test

* Low Temperature test

2) Aging test

3) Salt spray test

4) Humidity test

Conditions:	Temperature	+40°C ± 2°C
	Relative humidity	90 - 95%
	Length of test	96 hours
Results:	a. Insulation resistance must be 500 M Ω /100 Vac. minimum	
	b. Resistance and wave form must remain within specifications.	