

**QUARTZ CRYSTAL UNIT IN HC-49/U THRU-HOLE PACKAGE.**
**PRODUCT FEATURES**

- Dimensions 11x13x4.5 with 2 leads.
- Ideal for low frequencies.
- Optional insulation spacer and cut leads available.
- RoHS compliant, LEAD-FREE and HALOGEN-FREE.

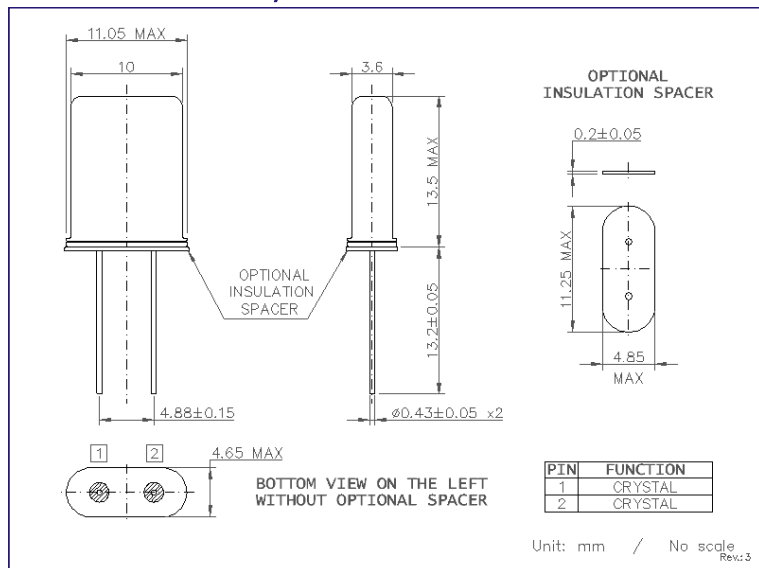
**PRODUCT PHOTO (NOT IN SCALE)**

**APPLICATIONS**

- TV, Radio
- Communication devices
- Test Equipment
- Medical equipment

**PRODUCT SPECIFICATIONS**

| PARAMETER                    | X49UT2   | CONDITIONS / REMARKS   |
|------------------------------|--|--|
| Nominal frequency range      | 1.8432 ~ 100.0MHZ  | Fundamental up to 35MHz and 3rd overtone up to 100MHz.   |
| Crystal cut and mode         | AT-cut / FUND & 3rd OT                                   |  |
| Frequency tolerance          | ±10ppm / ±20ppm / ±30ppm                                 | Other options available.   |
| Frequency stability          | ±10ppm / ±30ppm  | Other options available.   |
| Operating temperature range  | -20 to +70°C / -40 to +85°C                              | Other options available.   |
| Equivalent series resistance | 500Ω ~ 200Ω<br>150Ω ~ 100Ω<br>100Ω ~ 40Ω<br><30Ω<br><40Ω | FUND - 1.8 to 2.9MHZ<br>FUND - 3.0 to 4.5MHZ<br>FUND - 4.6 to 9.9MHZ<br>FUND - >10.0MHZ<br>3rd OT - 35.0 to 100.0MHZ |
| Load capacitance             | 4 ~ 32pF or SERIES                                       | Please specify.  |
| Shunt capacitance            | <7pF   | --   |
| Drive level                  | 100μW TYP / 500μW MAX                                    | --   |
| Aging first year             | ±5ppm  | @+25°C   |

**PACKAGE OUTLINE / DIMENSIONS**

**PACKAGING INFORMATION**

- Bulk packaging in vinyl bags and boxes.
- QTY per bag: 100pcs MAX.
- QTY per box: 1,000pcs MAX.

**RECOMMENDED WAVE SOLDER PROFILE**
