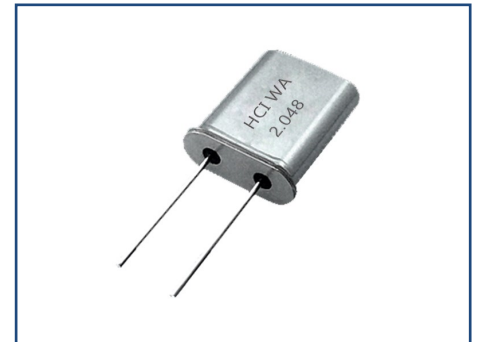


**QUARTZ CRYSTAL UNIT IN HC-49/T THRU-HOLE PACKAGE.**
**PRODUCT FEATURES**

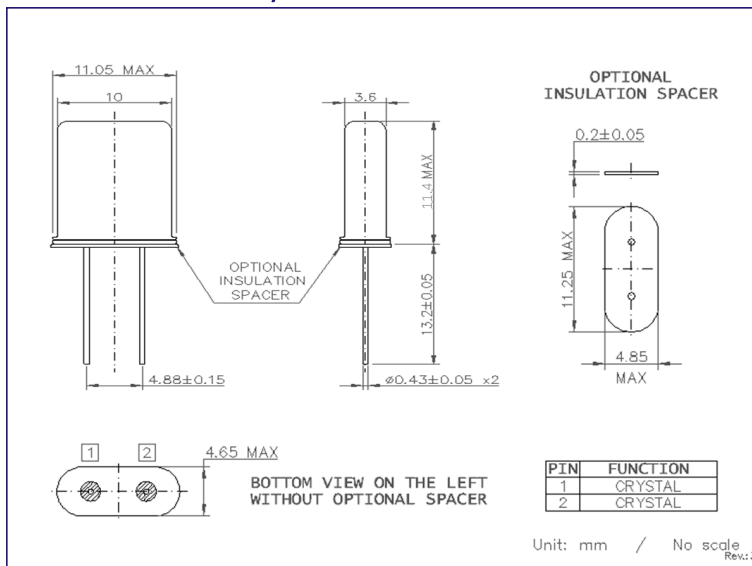
- Dimensions 11x13x11.4 with 2 leads.
- Ideal for low frequencies.
- Optional insulation spacer and cut leads available.
- RoHS compliant, LEAD-FREE and HALOGEN-FREE.

**PRODUCT PHOTO (NOT IN SCALE)**

**APPLICATIONS**

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

**PRODUCT SPECIFICATIONS**

PARAMETER	049TT2		CONDITIONS / REMARKS
Nominal frequency range	2.048 ~ 80.0MHZ		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 150Ω ~ 100Ω 100Ω ~ 40Ω <40Ω <60Ω		FUND - 2.0 to 2.9MHZ FUND - 3.0 to 4.5MHZ FUND - 4.6 to 9.9MHZ FUND - >10.0MHZ 3rd OT - 35.0 to 80.0MHZ
Load capacitance	8 ~ 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**
