TXC CORPORATION

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# HC-49U PRODUCT SPECIFICATIONS

| TXC CORPORATION | TXC P/N **9A04001161** | Doc. No. | Ver. **B** |
|---|---|---|---|

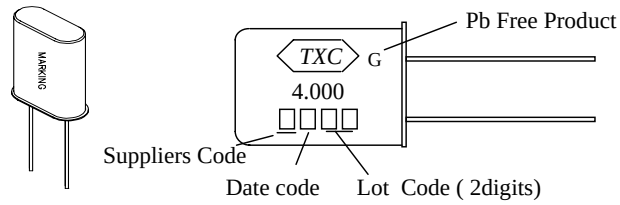
## General Specifications

| | | Min | TYP. | Max | units |
|---|---|---|---|---|---|
| 1 | Nominal Frequency | | 4.000000 | | MHz |
| 2 | Mode Of Vibration | | Fundamental | | |
| 3 | Load Capacitance (CL) | | 20 | | pF |
| 4 | Effective Series Resistance | | | 30 | Ohms |
| 5 | Shunt Capacitance (C0) | 2.5 | 3.5 | 4.5 | pF |
| 6 | Motional Capacitance (C1) | | | | fF |
| 7 | C0/C1 | | | | |
| 8 | Calibration TOL. (25°C) | -30 | | +30 | ppm |
| 9 | Operation Temp. Range | -20 | | +70 | ℃ |
| 10 | Stability Over Operation Temp. Range | -30 | | +30 | ppm |
| 11 | Drive Level | | 10 | | uW |
| 12 | Insulation Resistance：(at DC 100V) | 500 | | | Mohms |
| 13 | Spurious ：Search Range(±5000ppm) | | | -3.5 | dB |
| 14 | DLD2(0.1~1000uW / set 20 point) | | | 20 | Ohms |
| 15 | FDLD(0.1~1000uW / set 20 point) | | | 10 | ppm |
| 16 | Aging | -3 | | +3 | ppm/year |
| 17 | Others : | | | | |
| | *Pb Free Process(Pb<40ppm) | | | | |

## Special Requested Specifications

1. All Pb free products must go through the IR re-flow process with260℃±5℃ / 20 second conditions.
2. Machine for Measurement-S&A250B
3. Please provide 20pcs electrical & temperature data for each lot.

## Making : ■ Laser Marking ☐ Ink Marking ☐ No Marking

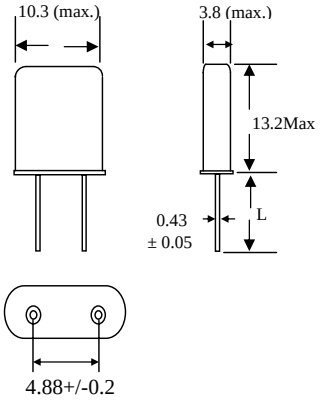



Date code : Unit：mm

| year \ month | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2005 | A | B | C | D | E | F | G | H | J | K | L | M |
| 2006 | N | P | Q | R | S | T | U | V | W | X | Y | Z |
| 2007 | a | b | c | d | e | f | g | h | j | k | l | m |
| 2008 | n | p | q | r | s | t | u | v | w | x | y | z |

This date code will be cycling four years.

Dimensions： Unit：mm




| L | Selection |
|---|---|
| 13.2±0.5 | ☐ |
| 3.4±0.5 | ☐ |
| 4.0±0.3 | ■ |
| | |

## Packing Method (Please refer to TXC Standard Package Method)

1 Packing： ☐ Tray (TXC Standard, White color) ☐ Tray (Antistatic Material,___ Color)
☐ Taping On Reel ☐ Taping (Ammo Packing)
■ Antistatic Bag (Pink Color), 200_Pcs/Bag.
☐ Others : Zipper Plastic Bag (Clear), 200 Pcs/Bag,Put In Bubble Bag, 5 Bag/Box.

2 Inner Box： ■ TXC Standard ☐ Others _____

3 Labeling ： ■ The green label with black “G” will be labeled on reel, inner packing box and shipping carton for identification.(Please refer to the packing specification for Pb free parts.)

## Inspection Standard and Method Sampling Plan : MIL - STD -105E Single Sampling

| Inspection Item | Specification | Refer To TXC Document | AQL |
|---|---|---|---|
| 1. Electrical Characteristics | As General Specificaitons | Electrical Specifications | Maj . : 0.1 % , Min . : 1.0 % |
| 2. Leakage(Gross And Fine) | 1 x 10 Exp (-8) atm c.c. / sec Max. | Reliability Specifications | Maj . : 0.01 % |
| 3. Marking | As Specificaitons | Marking Specifications | Maj . : 0.01 % |
| 4. Appearance Check | As Golden Sample | Appearance Specifications | Maj . : 0.1 % , Min . : 1.0 % |

## Engineering Change Records

| Revision | Description of Change | Issue Date | Approved | Checked | Presented |
|---|---|---|---|---|---|
| A | Initial Release | *2004/6/8* | *Ton Hsieh* | Simon Wang | MARK |
| B | Transfer to the new form (DCN-04A002 ) | *2005/5/5* | *Ton Hsieh* | Simon Wang | Roger Hsu |
| C | | | | | |