HC-49S

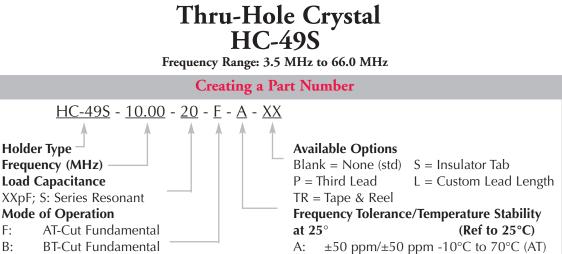
Thru-Hole Crystal

Size, mm

11.0 x 4.6 x 3.5 Frequency Stability ±30 PPM Temperature Range 0°C to 70°C Frequency Range 3.5-66.0 MHz

Features

- Meets NEL requirements for product reliability
- Resistance welded low profile holder
- Frequency range 3.500 MHz to 66.000 MHz
- Special frequencies available



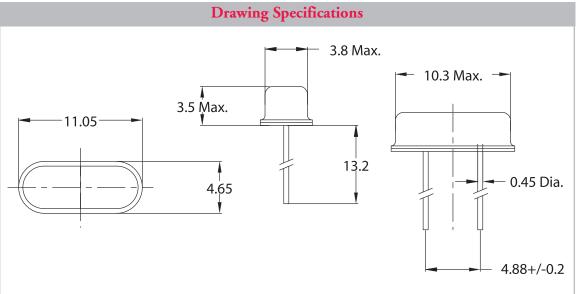
3rd Overtone

T:

- B: $\pm 30 \text{ ppm/} \pm 30 \text{ ppm} 10^{\circ}\text{C to } 70^{\circ}\text{C (AT)}$
- C: $\pm 50 \text{ ppm/} \pm 100 \text{ ppm} 10^{\circ}\text{C}$ to 70°C (AT)
- D: $\pm 50 \text{ ppm/} \pm 100 \text{ ppm } 0^{\circ}\text{C to } 70^{\circ}\text{C (BT)}$

Electrical Specifications

| | • |
|---|---------------------------------------|
| Frequency Range (F _o) | 3.500 MHz to 66.000 MHz |
| Storage Temperature Range (T _{STG}) | -40°C to 85°C |
| Shunt Capacitance (C _o) | 7 pF Max. |
| Load Capacitance (C _L) | 10 to 32 pF or Series Resonant |
| Insulation Resistance | 500 Megaohms Minimum at 100 VDC |
| Drive Level | 1 mWatts Max. |
| Aging (at 25°C) | ±5 ppm/year Max. |
| Equivalent Series Resistance | Frequency Range E.S.R. (Ω) Max |
| Mode: Fundamental/AT | 3.500 to 3.999 MHz 150 |
| Mode: Fundamental/AT | 4.000 to 4.499 MHz 150 |
| Mode: Fundamental/AT | 4.500 to 4.999 MHz 120 |
| Mode: Fundamental/AT | 5.000 to 5.999 MHz 120 |
| Mode: Fundamental/AT | 6.000 to 6.999 MHz 100 |
| Mode: Fundamental/AT | 7.000 to 7.999 MHz 90 |
| Mode: Fundamental/AT | 8.000 to 8.999 MHz 80 |
| Mode: Fundamental/AT | 9.000 to 9.999 MHz 60 |
| Mode: Fundamental/AT | 10.000 to 12.999 MHz 50 |
| Mode: Fundamental/AT | 13.000 to 19.999 MHz 40 |
| Mode: Fundamental/AT | 20.000 to 30.000 MHz 40 |
| Mode: 3rd Overtone/AT | 30.000 to 66.000 MHz 80 |
| Mode: Fundamental/BT | 27.000 to 40.000 MHz 40 |





For the most up to date specifications on each NEL product, log on to our website—www.nelfc.com

Dimensions shown in millimeters.