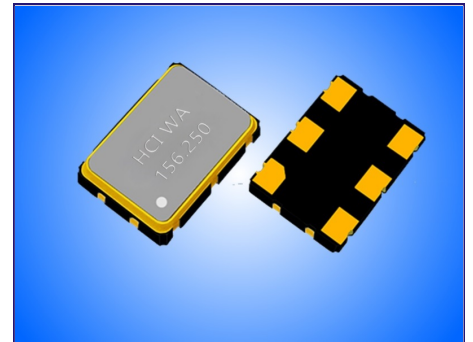


**OSCILLATOR UNIT WITH CMOS OUTPUT IN SMD 7.0x5.0mm CERAMIC SEAM SEAL PACKAGE.**
**PRODUCT FEATURES**

- Small dimensions 7.0x5.0x1.3 with 6 solder pads.
- Tight stabilities over temperature range.
- Tri-state enable/ disable function (pad 1).
- ROHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

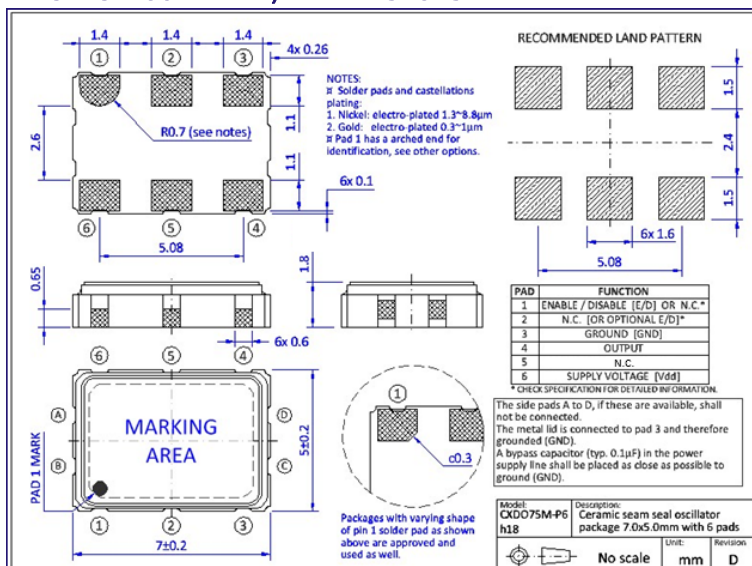
**APPLICATIONS**

- DSL / WLAN / Ethernet
- Signal communication
- Notebook / PDA
- VGA card

**PRODUCT PHOTO (NOT IN SCALE)**

**PRODUCT SPECIFICATIONS**

| PARAMETER                   | SUPPLY VOLTAGE                             |           |           | REMARKS                             |
|-----------------------------|--|-----------|-----------|-------------------------------------|
|                             | 1.8V                                       | 2.5V      | 3.3V      |                                     |
| Frequency range             | NA   | 10~250MHz | 10~250MHz |                                     |
| Frequency stability         | ±20ppm / ±25ppm / ±50ppm                   |           |           | See note below                      |
| Operating temperature range | -10 to +60°C / -20 to +70°C / -40 to +85°C |           |           | Options up to +125°C                |
| Aging first year            | ±2.0ppm                                    |           |           | @+25°C                              |
| Supply current              | ---  | 30mA      | 30mA      | 10~80MHz @15pF                      |
|                             | ---  | 38mA      | 38mA      | ≥80~180MHz @15pF                    |
|                             | ---  | 48mA      | 48mA      | ≥180MHz @15pF                       |
| Output waveform and load    | LVCMOS 15pF                                |           |           |                                     |
| Output voltage level HIGH   | ---  | 2.25V     | 2.97V     | Minimum                             |
| Output voltage level LOW    | ---  | 0.25V     | 0.33V     | Maximum                             |
| Rise and Fall times         | ---  | 5ns       | 5ns       | 1~100MHz @10~90% of V <sub>CC</sub> |
|                             | ---  | 3ns       | 3ns       | ≥100MHz @10~90% of V <sub>CC</sub>  |
| Symmetry (duty cycle)       | 45~55% or 40~60%                           |           |           | @ 50%V <sub>CC</sub>                |
| Phase jitter RMS            | 1ps Typ                                    |           |           | 12kHz≤F <sub>j</sub> ≤20MHz         |

Note: Stability includes frequency deviations at +25°C, over temperature range, due to supply voltage

**PACKAGE OUTLINE / DIMENSIONS**

**PACKAGING INFORMATION**

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 16mm.
- Component pitch in carrier 8mm.
- Reel diameter 180mm.
- QTY per reel: 1,000pcs

**RECOMMENDED REFLOW PROFILE**
