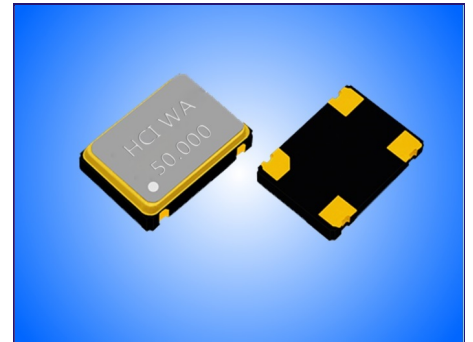


**OSCILLATOR UNIT WITH CMOS OUTPUT IN SMD 7.0x5.0mm CERAMIC SEAM SEAL PACKAGE.**
**PRODUCT FEATURES**

- Small dimensions 7.0x5.0x1.3 with 4 solder pads.
- Tight stabilities over temperature range.
- Tri-state enable/ disable function (pad 1).
- Automotive compliance to AEC-Q200 available.
- ROHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

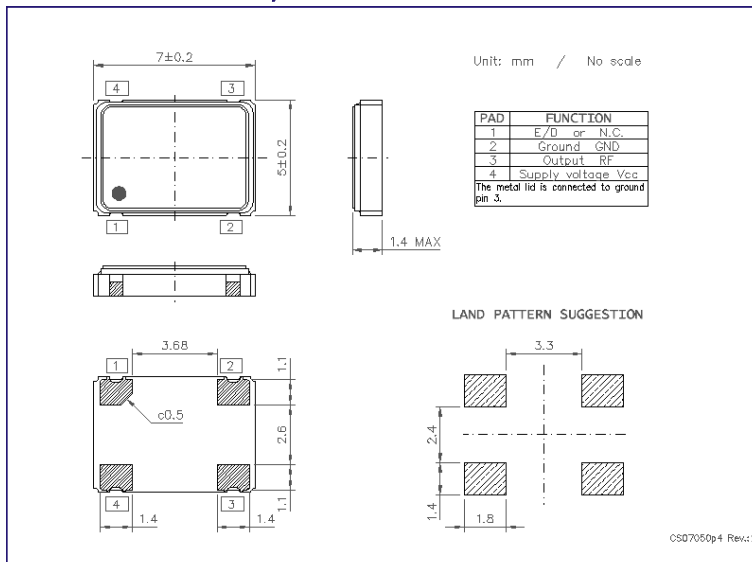
**APPLICATIONS**

- DSL / WLAN / Ethernet
- Motherboard
- Notebook / PDA
- VGA card

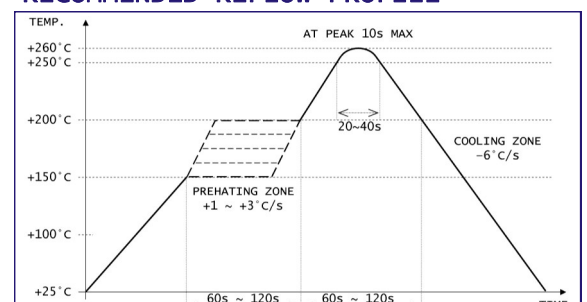
**PRODUCT PHOTO (NOT IN SCALE)**

**PRODUCT SPECIFICATIONS**

| PARAMETER                   | SUPPLY VOLTAGE                             |              |              | REMARKS                             |
|-----------------------------|--|--------------|--------------|-------------------------------------|
|                             | 1.8V                                       | 2.5V         | 3.3V         |                                     |
| Frequency range             | 0.137~125MHz                               | 0.137~133MHz | 0.137~166MHz | 32.768kHz available                 |
| 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            | ±3.0ppm                                    |              |              | @+25°C                              |
| Supply current              | 7~15mA                                     | 8~18mA       | 10~20mA      | 1~30~75MHz @15pF                    |
|                             | 25mA                                       | 30mA         | 35mA         | ≥75~133MHz @15pF                    |
|                             | ---  | 40mA         | 45mA         | ≥133MHz @15pF                       |
| Output waveform and load    | LVCMOS 15pF                                |              |              | 30pF optional                       |
| Output voltage level HIGH   | 1.62V                                      | 2.25V        | 2.97V        | Minimum                             |
| Output voltage level LOW    | 0.18V                                      | 0.25V        | 0.33V        | Maximum                             |
| Rise and Fall times         | 5ns  | 5ns          | 5ns          | 1~100MHz @10~90% of V <sub>CC</sub> |
|                             | 3ns  | 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                                       |              |              | 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**


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