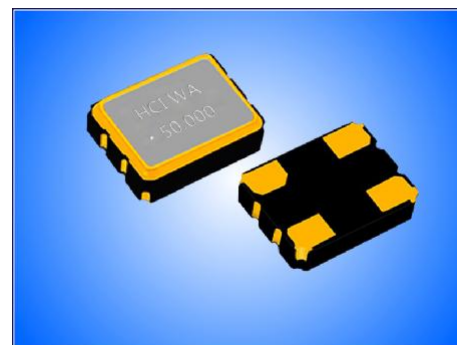


**OSCILLATOR UNIT WITH CMOS OUTPUT IN SMD 3.2x2.5mm CERAMIC SEAM SEAL PACKAGE.**
**PRODUCT FEATURES**

- Small dimensions 3.2x2.5x1.0 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.

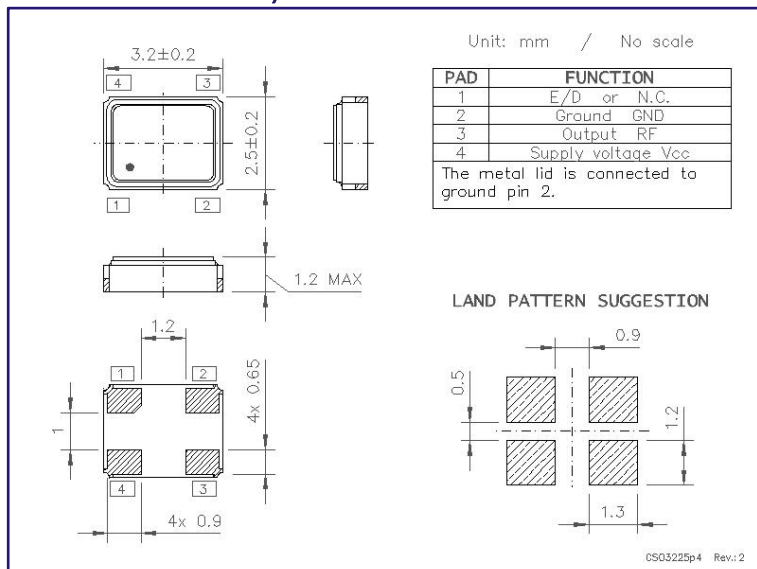
**APPLICATIONS**

- WiFi / WiMAX / Bluetooth
- Set-top Box / HDTV
- Mobil phone

**PRODUCT PHOTO (NOT IN SCALE)**

**PRODUCT SPECIFICATIONS**

| PARAMETER                   | SUPPLY VOLTAGE                             |               |               | REMARKS                           |
|-----------------------------|--------------------------------------------|---------------|---------------|-----------------------------------|
|                             | 1.8V                                       | 2.5V          | 3.3V          |                                   |
| Frequency range             | 1.25 ~ 125MHz                              | 1.25 ~ 125MHz | 1.25 ~ 125MHz | 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 available                 |
| Aging first year            | ±3.0ppm                                    |               |               | @+25°C                            |
| Supply current              | 7mA                                        | 10mA          | 15mA          | with load 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                                        | 4ns           | 3ns           | <10MHz @10~90% of V <sub>CC</sub> |
|                             | 4ns                                        | 3ns           | 3ns           | ≥10MHz @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 changes, output load changes, shock and vibration.

**PACKAGE OUTLINE / DIMENSIONS**

**PACKAGING INFORMATION**

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 8mm.
- Component pitch in carrier 4mm.
- Reel diameter 180mm.
- QTY per reel: 3,000pcs

**RECOMMENDED REFLOW PROFILE**
