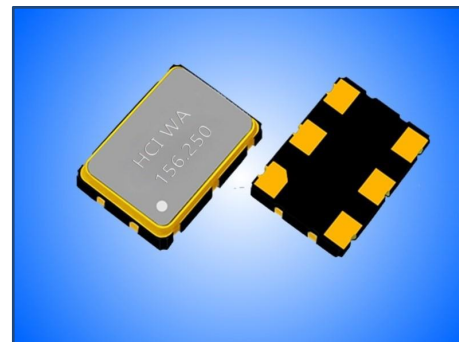


**OSCILLATOR UNIT WITH LVPECL OUTPUT IN SMD 3.2x2.5MM CERAMIC SEAM SEAL PACKAGE.**
**PRODUCT FEATURES**

- Small dimensions 3.2x2.5x1.3 with 6 solder pads.
- Highly reliable seam sealed ceramic package.
- wide frequency range.
- Low jitter and phase noise.
- RoHS compliant, LEAD-FREE and HALOGEN-FREE.

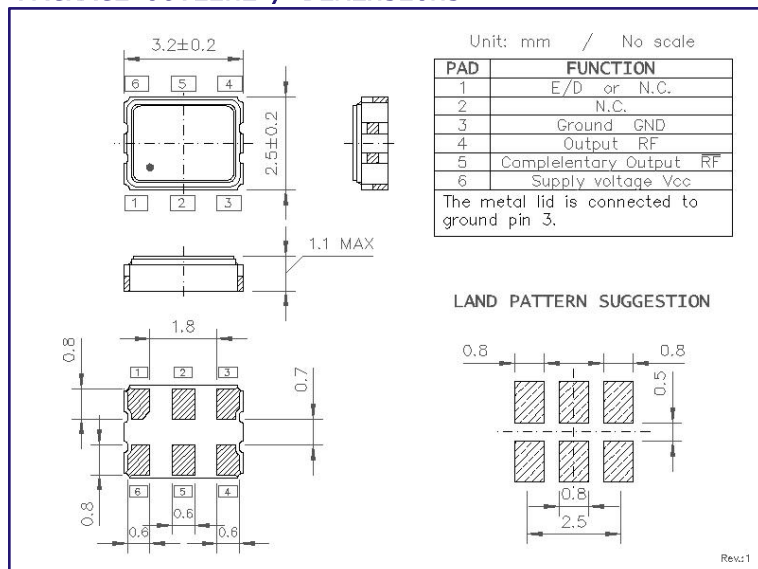
**APPLICATIONS**

- High speed communication
- Handheld equipment
- Telecom equipment

**PRODUCT PHOTO (NOT IN SCALE)**

**PRODUCT SPECIFICATIONS**

| PARAMETER                   | CP32P6                                            | CONDITIONS / REMARKS                     |
|-----------------------------|---------------------------------------------------|------------------------------------------|
| Nominal frequency range     | 10 ~ 800MHz                                       | Fund., Overtone or PLL                   |
| Supply voltage              | 2.5V <sub>DC</sub> / 3.3V <sub>DC</sub>           | Other option possible                    |
| Supply current              | 100mA                                             | Maximum, Fund mode lower I <sub>CC</sub> |
| Frequency stability         | ±25ppm / ±50ppm / ±100ppm                         | See note below.                          |
| Operating temperature range | -10 to +70°C or -40 to 85°C                       | Other options available.                 |
| Output waveform and load    | LVPECL / 50Ω                                      | Into V <sub>CC</sub> -2                  |
| Output voltage level HIGH   | V <sub>CC</sub> -1.025V / V <sub>CC</sub> -0.880V | Minimum / Maximum                        |
| Output voltage level LOW    | V <sub>CC</sub> -1.810V / V <sub>CC</sub> -1.620V | Minimum / Maximum                        |
| Rise and Fall times         | 1.5ns                                             | @ 20~80~20%V <sub>CC</sub>               |
| Symmetry (duty cycle)       | 45~55%                                            | @ outputs cross point                    |
| Phase Jitter RMS            | <1ps                                              | Integrated 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**
