

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

- Small dimensions 7.0x5.0x1.6 with 8 solder pads.
- Highly reliable seam sealed ceramic package.
- Ultra wide frequency range.
- Ultra low jitter and phase noise.
- RoHS compliant, LEAD-FREE and HALOGEN-FREE.

**APPLICATIONS**

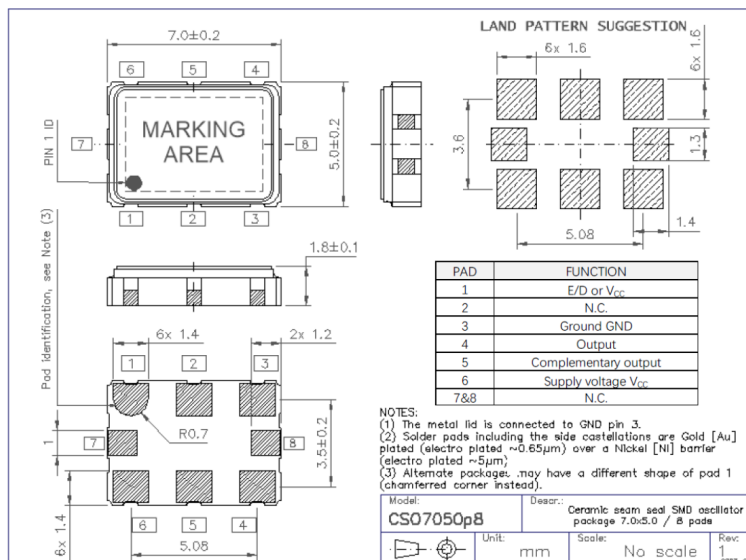
- High speed communication
- Handheld equipment
- Telecom equipment

**PRODUCT PHOTO (NOT IN SCALE)**

**PRODUCT SPECIFICATIONS**

PARAMETER	1575D8	CONDITIONS / REMARKS
Nominal frequency range	15 ~ 2100MHZ	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	LVDS / 100Ω	R <sub>L</sub> between outputs
Output voltage level HIGH	1.40V	Typical
Output voltage level LOW	1.10V	Typical
Rise and Fall times	0.5ns	@ 20~80~20%V <sub>PP</sub>
Symmetry (duty cycle)	45~55%	@ outputs cross point
Phase Jitter RMS	<0.3ps	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 16mm.
- Component pitch in carrier 8mm.
- Reel diameter 180mm.
- QTY per reel: 1,000pcs

**RECOMMENDED REFLOW PROFILE**
