

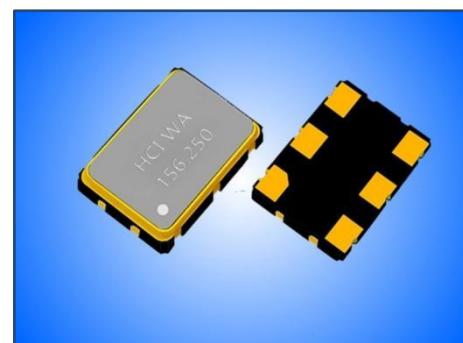


OSCILLATOR UNIT WITH LVDS OUTPUT IN SMD 7.0x5.0MM CERAMIC SEAM SEAL PACKAGE .

PRODUCT FEATURES

- Small dimensions 7.0x5.0x1.6 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.

PRODUCT PHOTO (NOT IN SCALE)



APPLICATIONS

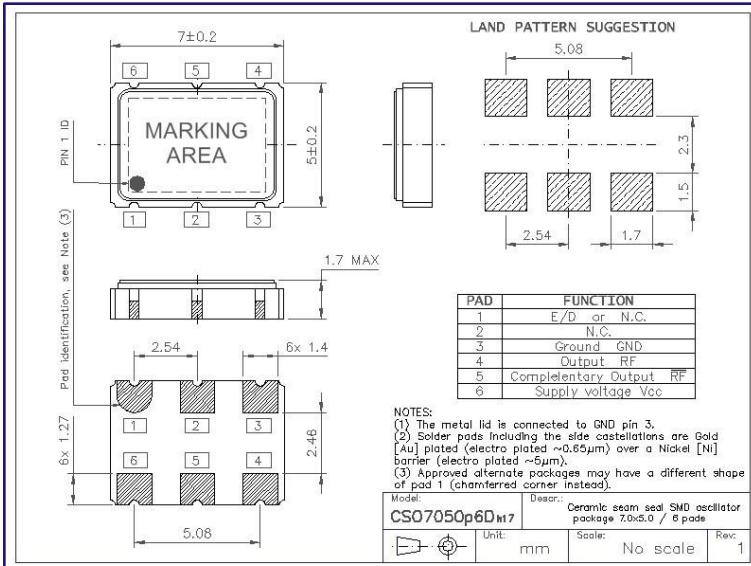
- High speed communication
- Handheld equipment
- Telecom equipment

PRODUCT SPECIFICATIONS

PARAMETER	1575D	CONDITIONS / REMARKS
Nominal frequency range	10 ~ 1500MHz	Fund., Overtone or PLL
Supply voltage	1.8VDC / 2.5VDC / 3.3VDC	Other option possible
Supply current	100mA	Maximum, Fund mode lower I_{cc}
Frequency stability	$\pm 25\text{ppm}$ / $\pm 50\text{ppm}$ / $\pm 100\text{ppm}$	See note below.
Operating temperature range	-40 to +85°C or -55 to 125°C	Other options available.
Output waveform and load	LVDS / 100Ω	R_L between outputs
Output voltage level HIGH	1.40V	Typical
Output voltage level LOW	1.10V	Typical
Rise and Fall times	1.5ns	@ 20~80~20% V_{cc}
Symmetry (duty cycle)	45~55%	@ outputs cross point
Phase Jitter RMS	<1ps	Integrated 12kHz $\leq F_j \leq 20\text{MHz}$

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

