Hang Crystal International

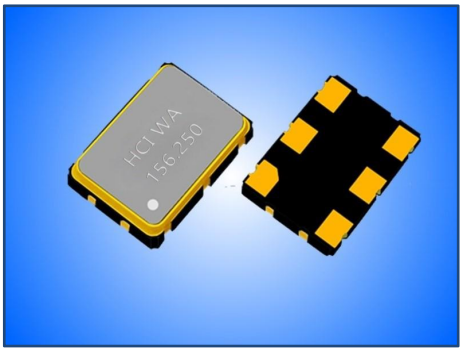
OSCILLATOR UNIT
1532D

OSCILLATOR UNIT WITH LVDS 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.

PRODUCT PHOTO (NOT IN SCALE)



APPLICATIONS

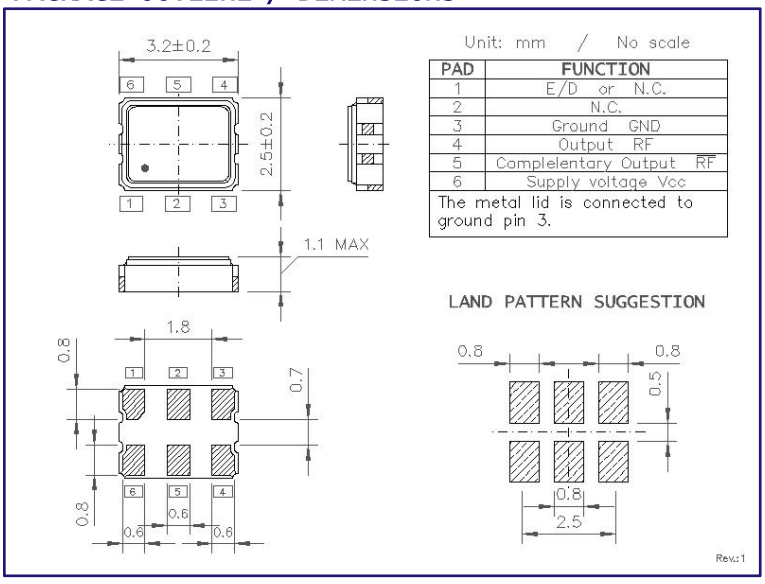
- High speed communication
- Telecom equipment
- Handheld equipment

PRODUCT SPECIFICATIONS

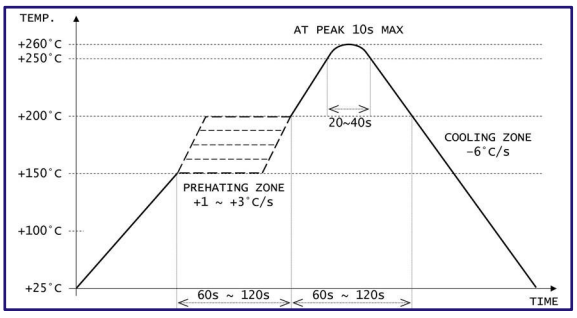
PARAMETER	1532D	CONDITIONS / REMARKS
Nominal frequency range	10 ~ 800MHz	Fund., Overtone or PLL
Supply voltage	1.8V_{DC} / 2.5V_{DC} / 3.3V_{DC}	Other option possible
Supply current	100mA	Maximum, Fund mode lower I_{CC}
Frequency stability	±25ppm / ±50ppm / ±100ppm	See note below.
Operating temperature range	-10 to +70°C or -40 to 85°C	Other options available.
Output waveform and load	LVDS / 100Ω	R_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≤F_j≤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