Hang Crystal International

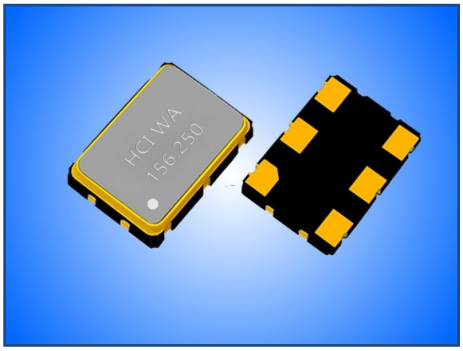
OSCILLATOR UNIT
CO75D6

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

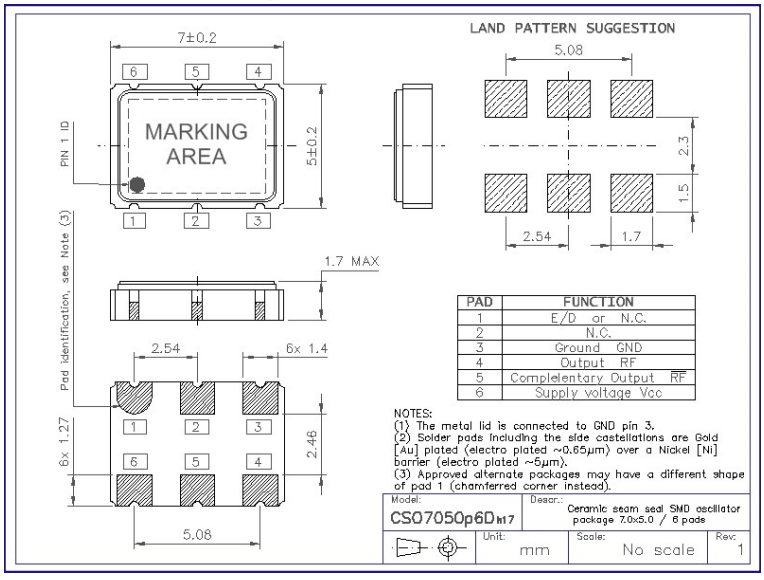
- High speed communication
- Handheld equipment
- Telecom equipment

PRODUCT SPECIFICATIONS

PARAMETER	CO75D6	CONDITIONS / REMARKS
Nominal frequency range	10 ~ 800MHz	Fund., Overtone or PLL
Supply voltage	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.

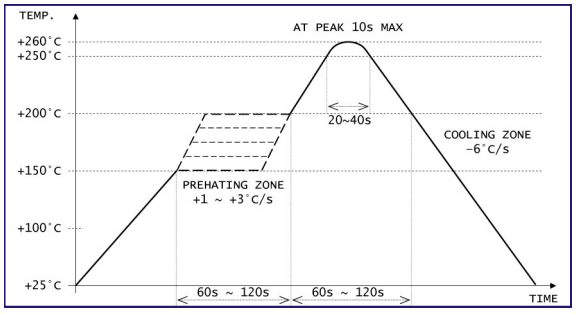
PACKAGE OUTLINE / DIMENSIONS



PACKAGING INFORMATION

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 16mm.
- Component pitch in carrier 8mm.
- Reel diameter 180mm.
- QTY per reel: 1,000pcs

RECOMMENDED REFLOW PROFILE



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HCTT3-4.910-ZTTCPL 3110M4-32.768DT07LLL 3426T-32.768DT06LLL 0111M4-37.400F12DTNNL 0110M4-38.400F06FTNNL 0132M4-20.000F20DTJJL 0122M4-38.400F10DTNLL 1575H-15.9953JWVDTSL 0132M4-38.400F12DTNML 0153M4-10.000F16DTNLL 0111M4-27.120F09DTJGL 0163G2-19.6608F20DTNJL 049SS2-11.0592F20HPLLL 5715H6-38.880R33DTNOL 1532H-25.000KWVDTS 0121M4-48.000F5.2DTNJL 0132M4-25.000F08DZLGL 0121M4-16.000F12DTNLL 0132M4-25.000625F12DTNLL 049ST2-5.5296F20DTLLL 1553D-150.000K33DTL 0111M4-54.240F10DTMJL 049ST2-3.579545F20DTNJL 0163M4-19.6608F20DTNJL 9853S-T40.000Q33DT1NL 0132M4-9.8131F20DTNJL 0132M4-12.000F08DTNLL 0132M4-27.120F18DTNJL 0132M4-24.576F12DTNJL 3437S-32.768DT09LLL