Hang Crystal International

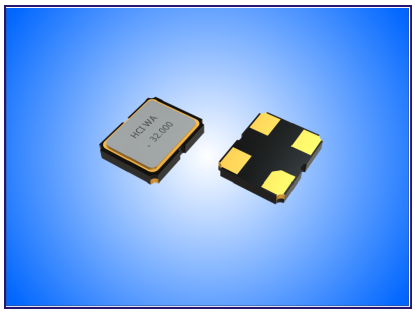
TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR
8122H

TCXO UNIT WITH HCMOS OUTPUT IN SMD 2.5X2.0MM CERAMIC SEAM SEAL PACKAGE.

PRODUCT FEATURES

- Small dimensions 2.5x2.0x0.9 with 4 solder pads.
- Tight stabilities over temperature range.
- RoHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

PRODUCT PHOTO (NOT IN SCALE)



APPLICATIONS

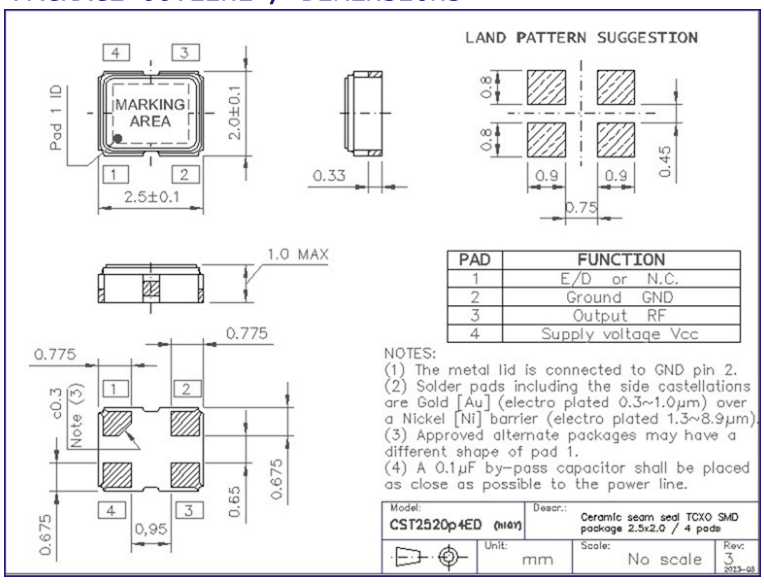
- WiMAX / WLAN / Ethernet
- Mobil applications
- Telecommunication

PRODUCT SPECIFICATIONS

PARAMETER	SUPPLY VOLTAGE 1.8V	2.5V	3.3V	REMARKS
Frequency range	9.5 ~ 55MHz			--
Frequency tolerance	±1.0ppm			Initial tol. @+25°C
Frequency stability	±2.0ppm / 2.5ppm / ±3.0ppm			See note below table
Operating temperature range	-40 to +85°C / -40 to +90°C / -40 to +105°C			In combination to above stabilities.
Aging per year	±1.0ppm			@+25°C
Output waveform and load	LVCMOS 15pF			--
Output voltage level HIGH	90%Vcc			Minimum
Output voltage level LOW	10%Vcc			Maximum
Rise and Fall times	8ns	8ns	8ns	@10~90% of V_{CC}
Symmetry (duty cycle)	45~55%			@ 50%V_{CC}
Phase noise (example 26MHz)	-110dBc/Hz / -130dBc/Hz / -145dBc/Hz			@100Hz / 1kHz / 10kHz
Phase jitter RMS	<1ps			12kHz≤Fj≤20MHz
Supply current	5mA	7mA	10mA	@15pF

Note: Frequency stability is the frequency deviation over temperature range in reference to +25°C

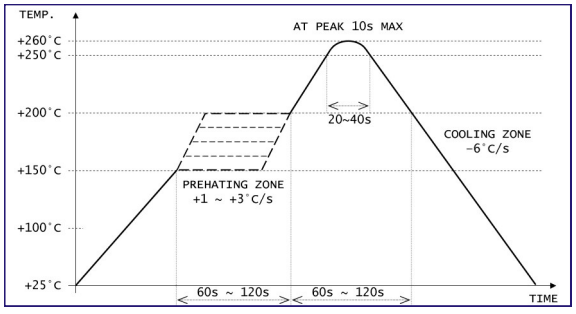
PACKAGE OUTLINE / DIMENSIONS



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



Suzhou HangJing Elec&Tech Co., Ltd. ◆ Http://www.hcixtal.com.cn ◆ No.208,Tongyuan Rd,Suzhou Industrial Park,Jiangsu,China

Telephone:+86 (0)512 6591 6689 ◆ Mobile phone:+86 (0)13819495058 ◆ e-mail: tony@hci.com.hk