Hang Crystal International

VOLTAGE CONTROLLED CRYSTAL OSCILLATOR

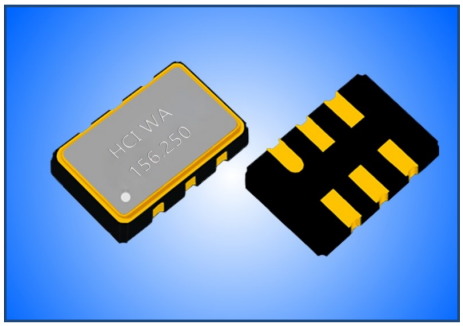
V153H

VCXO UNIT WITH HCMOS OUTPUT IN SMD 5.0X3.2MM CERAMIC SEAM SEAL PACKAGE.

PRODUCT FEATURES

- Small dimensions 5.0x3.2x1.25 with 6 solder pads.
- Tight stabilities over temperature range.
- Tristate enable/ disable function (pad 2).
- ROHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

PRODUCT PHOTO (NOT IN SCALE)



APPLICATIONS

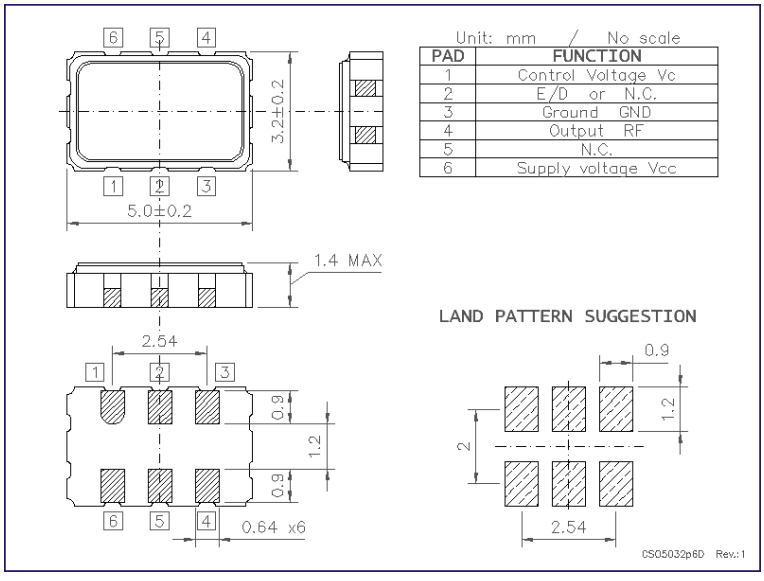
- WiMAX / WLAN / Ethernet
- DSL / VoIP
- Cable modem
- Set-top box / HDTV

PRODUCT SPECIFICATIONS

PARAMETER	SUPPLY VOLTAGE 1.8V	2.5V	3.3V	REMARKS
Frequency range	15 ~ 250MHz	15 ~ 250MHz	1.5 ~ 250MHz	--
Frequency stability	±20ppm / ±25ppm / ±30ppm / ±50ppm			See note below
Operating temperature range	-10 to +60°C / -20 to +70°C / -40 to +85°C			Options available
Aging first year	±3.0ppm			@+25°C
Frequency pulling range	±50ppm ~ ±250ppm			Depending on frequency
Supply current	---	---	10mA	1.5~15MHz @15pF
	40mA	50mA	20~30mA	≥15~80MHz @15pF
	70mA	80mA	40~90mA	≥80MHz @15pF
Output waveform and load	LVCMOS 15pF			30pF optional
Output voltage level HIGH	1.62V	2.25V	2.97V	Minimum
Output voltage level LOW	0.18V	0.25V	0.33V	Maximum
Rise and Fall times	4ns	4ns	5ns	1~50MHz @10~90% of Vcc
	2ns	2ns	3ns	≥50MHz @10~90% of Vcc
Symmetry (duty cycle)	40~60% or 45~55%			@ 50%Vcc
Phase jitter RMS	<1ps			12kHz≤Fj≤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 12mm.
- Component pitch in carrier 8mm.
- Reel diameter 180mm.
- QTY per reel: 1,000pcs

RECOMMENDED REFLOW PROFILE

