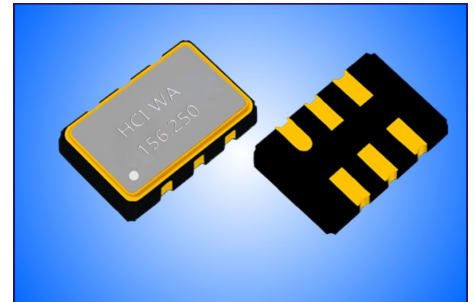


VCXO UNIT WITH LVPECL OUTPUT IN SMD 5.0x3.2mm CERAMIC SEAM SEAL PACKAGE.
PRODUCT FEATURES

- 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.

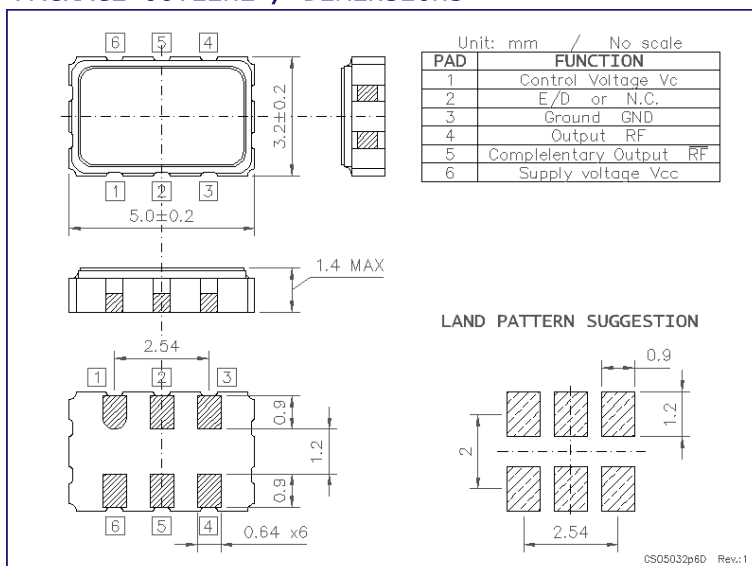
APPLICATIONS

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

PRODUCT PHOTO (NOT IN SCALE)

PRODUCT SPECIFICATIONS

PARAMETER	SUPPLY VOLTAGE		REMARKS
	2.5V	3.3V	
Frequency range	15 ~ 2100MHz		--
Frequency stability	$\pm 20\text{ppm}$ / $\pm 25\text{ppm}$ / $\pm 30\text{ppm}$ / $\pm 50\text{ppm}$		See note below
Operating temperature range	-10 to $+60^\circ\text{C}$ / -20 to $+70^\circ\text{C}$ / -40 to $+85^\circ\text{C}$		Options available
Aging first year	$\pm 3.0\text{ppm}$		@ $+25^\circ\text{C}$
Frequency pulling range	$\pm 50\text{ppm}$ ~ $\pm 250\text{ppm}$		Depending on frequency
Supply current	95mA	120mA	@ load
Output waveform and load	LVPECL 50 Ω		into $V_{DD}-2V$
Output voltage level HIGH	$V_{CC}-1.025V$ / $V_{CC}-0.880V$		Minimum / Maximum
Output voltage level LOW	$V_{CC}-1.810V$ / $V_{CC}-1.620V$		Minimum / Maximum
Rise and Fall times	$<1\text{ns}$	$<1\text{ns}$	@ $10\sim 90\%$ of V_{CC}
Symmetry (duty cycle)	45~55%		@ $50\%V_{CC}$
Phase jitter RMS	$<100\text{MHz}$	$<1.0\text{ps}$	$12\text{kHz} \leq F_j \leq 20\text{MHz}$
	$100\text{MHz} \sim 125\text{MHz}$	$<0.7\text{ps}$	$12\text{kHz} \leq F_j \leq 20\text{MHz}$
	$125\text{MHz} \sim 150\text{MHz}$	$<0.5\text{ps}$	$12\text{kHz} \leq F_j \leq 20\text{MHz}$
	$>150\text{MHz}$	$<0.3\text{ps}$	$12\text{kHz} \leq F_j \leq 20\text{MHz}$

Note: Stability includes frequency deviations at $+25^\circ\text{C}$, 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
