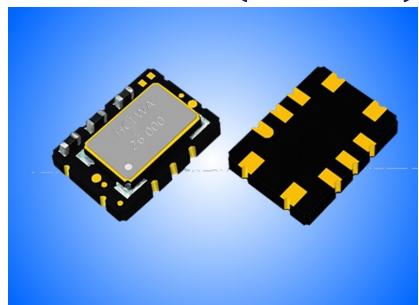


**TCXO UNIT WITH HCMOS OUTPUT IN SMD 7.0x5.0MM PACKAGE (STRATUM 3).**
**PRODUCT FEATURES**

- Small dimensions 7.0x5.0x1.9 with 10 solder pads.
- Stratum 3 (Overall  $\pm 4.6$ ppm including 20 years aging).
- RoHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

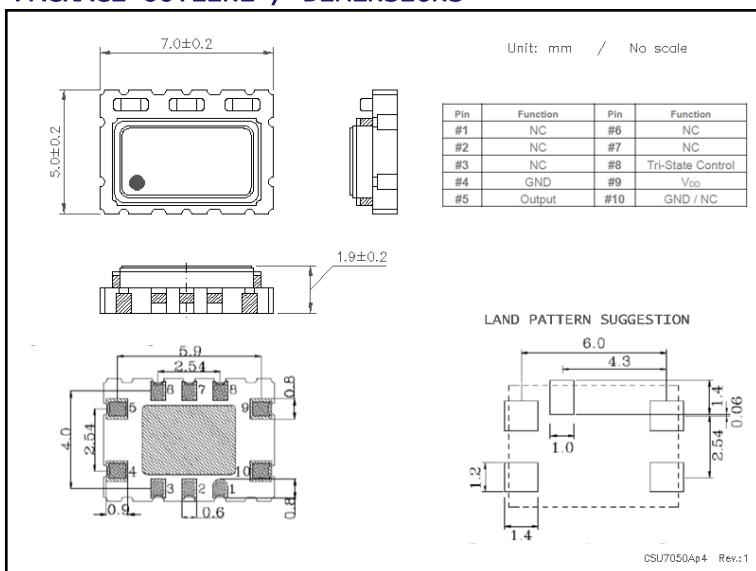
**PRODUCT PHOTO (NOT IN SCALE)**

**APPLICATIONS**

- WiMAX / WLAN / Ethernet
- Mobil applications
- Telecommunication
- Base station

**PRODUCT SPECIFICATIONS**

PARAMETER	SUPPLY VOLTAGE 3.3V	REMARKS
Frequency range	10 ~ 52MHz	--
Frequency tolerance	$\pm 1.0$ ppm	Initial tol. @ $+25^\circ\text{C}$
Frequency stability	$\pm 28$ ppm	See note below table
Operating temperature range	-20 to $+70^\circ\text{C}$ / -30 to $+85^\circ\text{C}$ / -40 to $+85^\circ\text{C}$	In combination to above stabilities.
Aging per year	$\pm 1.0$ ppm	@ $+25^\circ\text{C}$
Frequency stab. (Overall 20 years aging)	$\pm 4.6$ ppm	
Output waveform and load	LVCMS 15pF	--
Output voltage level	10%/90%V <sub>CC</sub>	Minimum
Symmetry (duty cycle)	45~55%	@ 50%V <sub>CC</sub>
Phase noise (example 10MHz)	-120dBc/Hz / -140dBc/Hz / -148dBc/Hz	@100Hz / 1kHz / 10kHz
Phase jitter RMS	<1ps	12kHz $\leq$ F <sub>j</sub> $\leq$ 20MHz
Supply current	6mA	@15pF

Note: Frequency stability is the frequency deviation over temperature range in reference to  $+25^\circ\text{C}$

**PACKAGE OUTLINE / DIMENSIONS**

**PACKAGING INFORMATION**

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 16mm.
- Component pitch in carrier 4mm.
- Reel diameter 180mm.
- QTY per reel: 1,000pcs

**RECOMMENDED REFLOW PROFILE**
