

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard: **T22-2601-25.00MHz**

P/N: \_\_\_\_\_

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2020.07.17			

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## 1. Electrical Parameters

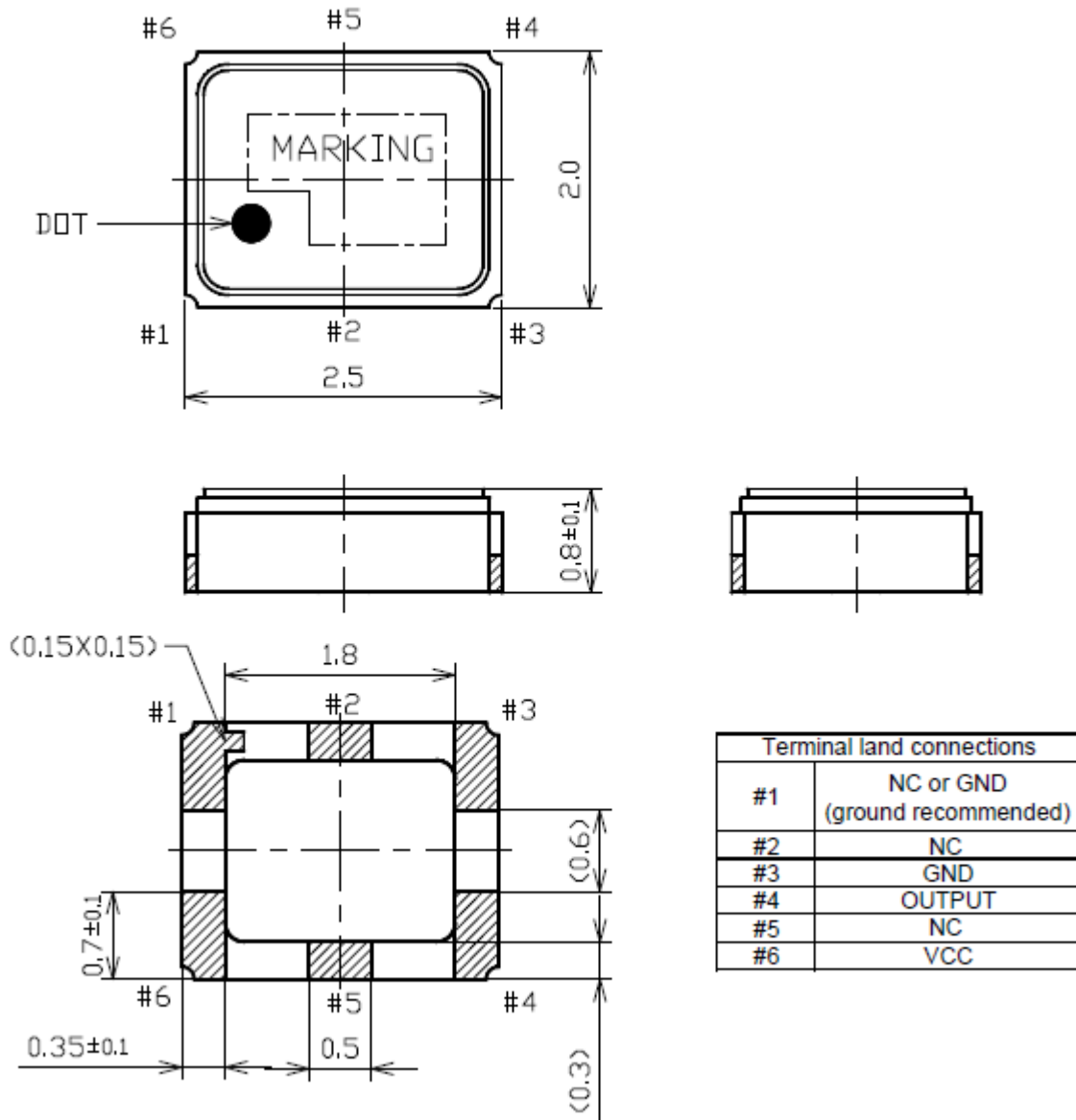
MODEL: T22-2601-25.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	25.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	1			V	
	Startup time			50	ms	
	Load	10KΩ//10pF				
Frequency Stabilities	Overall Frequency	-10		+10	$\times 10^{-6}$	Including: calibration @ 25°C power supply $\pm 5\%$ , load $\pm 5\%$ , reflow change, aging 10 years and temperature -40 to +105°C.
	Temperature Stability	-4		+4	$\times 10^{-6}$	-40°C to 105°C, $T_A=25^\circ\text{C}$
		-2		+2	$\times 10^{-6}$	-30°C to 85°C, $T_A=25^\circ\text{C}$
	Frequency calibration	-1.5		+1.5	$\times 10^{-6}$	Offset from f0 measured at +25 $\pm 2^\circ\text{C}$ including two consecutive reflows after 1h recovery.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	Measurement referenced to frequency observed $T_A=25^\circ\text{C}$ , $V_{cc}$ varied from 3.135V to 3.465V, and $O_{Load}=10\text{K}\Omega//10\text{pF}$ .
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^\circ\text{C}$ , $V_{cc}=3.3\text{V}$ , $O_{Load}=10\text{K}\Omega//10\text{pF}$ .
	Long term stability	-1		+1	$\times 10^{-6}$	@25°C, Frequency drift over 1year.
	Temperature hysteresis	-0.6		+0.6	$\times 10^{-6}$	Temperature ramped -40°C to +105°C Frequency measured before and after @ 25°C.
Frequency slope	-1		+1	$\times 10^{-6}/^\circ\text{C}$	-40°C ~ +95°C	
	-2		+2	$\times 10^{-6}/^\circ\text{C}$	+95°C ~ +105°C	
Power Supply	Current Consumption			2	mA	@25°C, $V_{cc}=3.3\text{V}$ , $O_{load}=10\text{K}\Omega//10\text{pF}$ .
	Supply Voltage	3.135	3.3	3.465	V	
Phase Noise	Phase Noise @ 25°C			-63	dBc/Hz	1Hz
				-92		10Hz
				-117		100Hz
				-139		1KHz
				-154		10KHz
				-156		100KHz



Environmental Conditions	Operable Temperature	-40		+105	°C	
	Storage Temperature	-55		+105	°C	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hours. (3 times for each 3 directions X , Y , Z ).IEC 68-2-06 Test Fc.				
Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y, Z ),IEC 68-2-27 Test Ea/Severity 50A.					
Full Package Storage	Relative humidity (%)	20% ~ 70%				
	Temperature (°C)	-10~35°C				



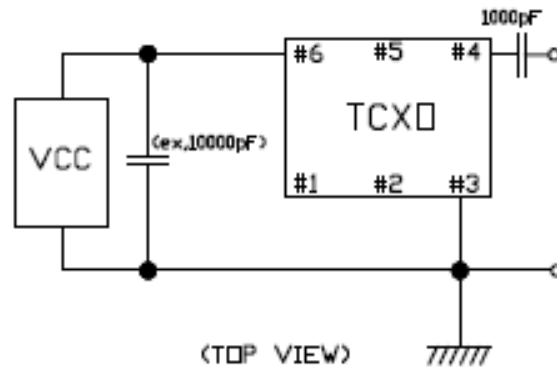
## 2. Mechanical Structure(mm)



**Note1:** Tolerance  $\pm 0.2$ mm without mark



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: Tape & Reel (mm)

