



The sub miniature ECS-TXO-2520 is a miniature SMD HCMOS TCXO. The 2.5 x 2.0 x 0.9 mm ceramic package is ideal for wireless IOT applications where stability is critical.

ECS-TXO-2520 SMD HCMOS TCXO



- Low Profile
- 2.5 x 2.0 mm Footprint
- Extended Temp Range
- RoHS Compliant

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECS-TXO-2520			UNITS
		MIN	TYP	MAX	
Frequency Range		3.200		55.000	MHz
Frequency Stability	Tolerance at +25°C			± 2.0	ppm
	Vs. Temp (-40 ~ +85°C)			± 2.5	ppm
	Voltage Change Vdd ±5%			±0.2	ppm
	Load Change (±10%)			±0.2	ppm
Aging	Per year @ +25°C			±1.0	ppm
Supply Voltage (Vdd)	Specify in P/N	+2.5, +2.8, +3.3 ±10%			V DC
Standby Current				10	µA
Output	HCMOS		15		pF
Output voltage Level	VOL:10%Vdd max./VOH:90%Vdd min.V DC				
Rise & Fall time	10%Vdd - 90%Vdd			5	ns
Duty Cycle	@ ½ Vdd			45/55	%
Phase Noise	@ 10 KHz offset		-145		dBc/Hz

DIMENSIONS (mm)

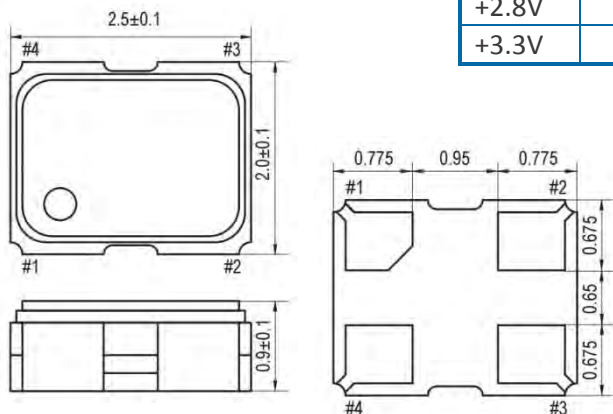


Figure 1) Top, Side, and Bottom views

CURRENT CONSUMPTION, mA Max.

FREQ.	3.2~ 10 MHz	10.1~ 20 MHz	20.1~ 30 MHz	30.1~ 40 MHz	40.1 ~55 MHz
+2.5V	3.1	3.7	4.2	4.6	5.5
+2.8V	3.4	4.1	4.7	5.2	6.0
+3.3V	4.0	4.8	5.5	6.0	7.0

PAD CONNECTIONS	
1	Tri-state
2	Gnd
3	Output
4	Vdd

Tri State Function	
Pin 1	Output
High or NC	Active
Low	Disable Hi-Z

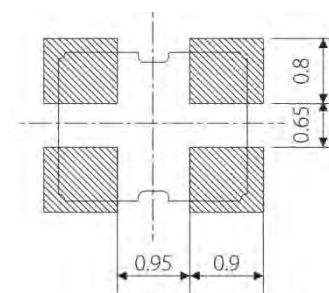


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-TXO-2520-33-160-AN-TR