

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 LoRa WAN and wireless IoT applications where stability is critical.

ECS-TXO-2520

SMD HCMOS TCXO

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECX-2520 SMD HCMOS TCXO



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

DIMENSIONS (mm)

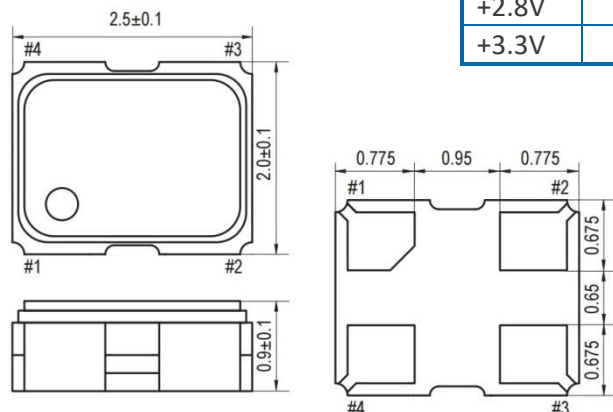


Figure 1) Top, Side, and Bottom views

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

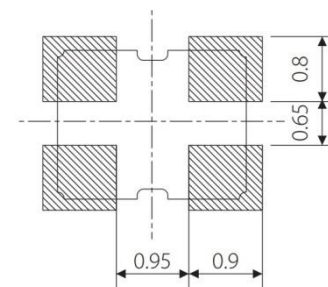


Figure 2) Suggested Land Pattern

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

ECS - SERIES	FREQUENCY ABBREVIATION	STABILITY	TEMP RANGE	PACKAGING
TXO-2520 2.5 x 2.0 mm TCXO	25 = +2.5V 28 = +2.8V 33 = +3.3V	160 = 16.000 MHz See Developed Frequencies Pg.2	* A = ±2.5 ppm B = ±1.5 ppm C = ±1.0 ppm	L = -10 ~ +70°C M = -30 ~ +70°C * N = -40 ~ +85°C
				TR = Tape & Reel 1K/Reel

* Standard specification, contact ECS for custom Options

Rev.2017

FREQUENCY ABBREVIATIONS

FREQUENCY MHz	CODE
5.000	050
10.000	100
12.000	120
16.000	160
20.000	200
24.000	240
25.000	250
32.000	320
40.000	400
44.000	440

SOLDER PROFILE

Peak solder Temp +260°C Max 10 sec Max.

2 Cycles Max.

MSL 1, Lead Finish Au

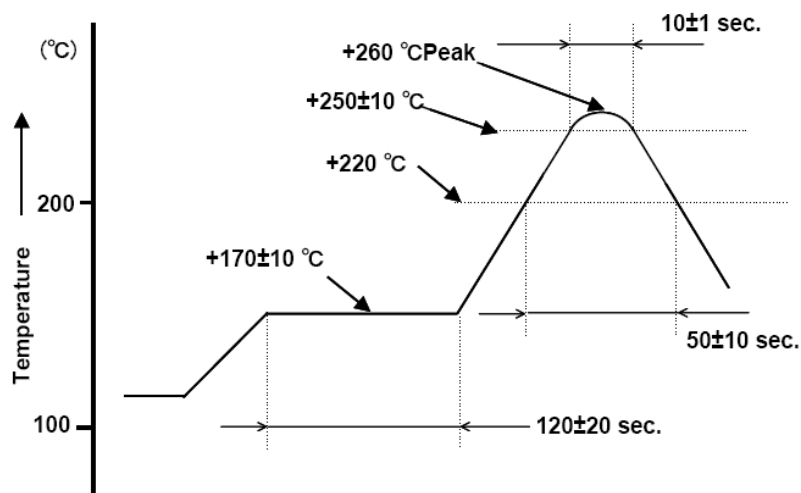
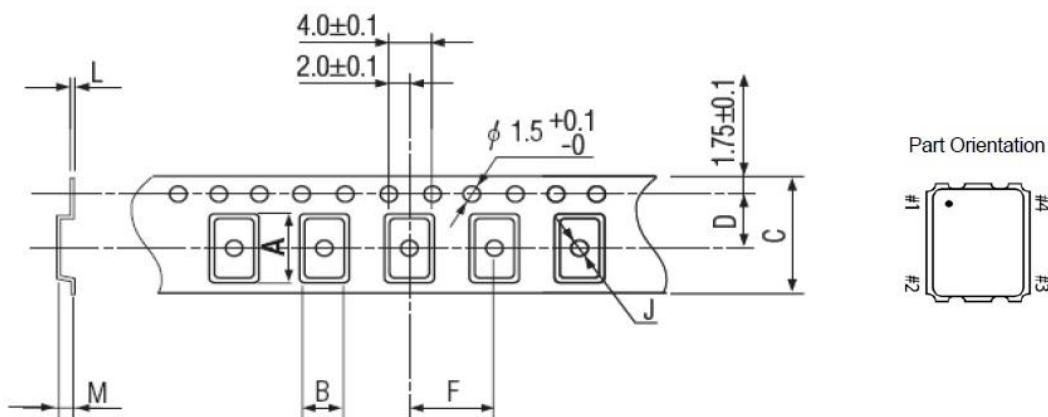


Figure 1) Suggested Reflow Profile

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
2.8	2.3	8.0	3.5	4.0	1.0	0.25	1.1	180	1000pcs