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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ECS-TXO-2520 SMD HCMOS TCXO

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



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

ECX-2520 SMD HCMOS TCXO



• Low Profile

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

DIMENSIONS (mm)

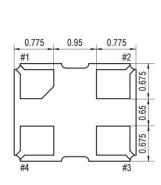
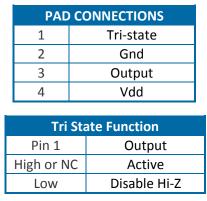


Figure 1) Top, Side, and Bottom views

PARAMETERS	CONDITIONS	ECS-TXO-2520			UNITS
		MIN	ТҮР	MAX	
Frequency Range		3.200		55.000	MHz
	Tolerance at +25°C			± 2.0	ppm
Fraguancy Stability	Vs. Temp (-40 ~ +85°C)			± 2.5	ppm
Frequency Stability	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	μΑ
Output	HCMOS		15		рF
Output voltage Level	Output voltage Level VoL:10%Vdd max./VoH:90%Vdd mi				in.V DC
Rise & Fall time	10%Vdd – $90%V$ dd			5	ns
Duty Cycle	@ ½ Vdd			45/55	%
Phase Noise	@ 10 KHz offset		-145		dBc/Hz

CURRENT CONSUMPTION, mA Max.

FREQ.	2. 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				



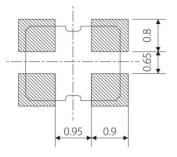


Figure 2) Suggested Land Pattern

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

ECS - SI	ERIES		FREQUENCY ABBREVIATION	STABILITY	TEMP RANGE	PACKAGING
	TXO-2520 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

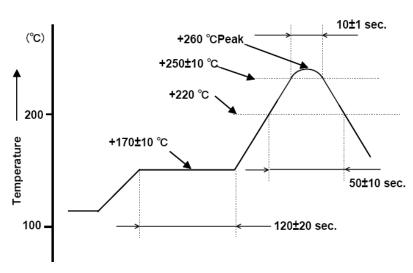
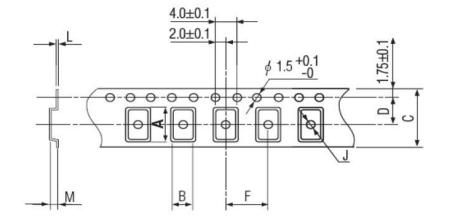


Figure 1) Suggested Reflow Profile

SOLDER PROFILE						
	Peak solder Temp +260°C Max 10 sec Max.					
	2 Cycles Max.					
	MSL 1. Lead Finish Au					

POCKET TAPE DIMENSIONS (mm)



Part Orientation



А	В	С	D	F	J	L	М	Reel Dia.	Qty/Reel
2.8	2.3	8.0	3.5	4.0	1.0	0.25	1.1	180	1000pcs