

CRYSTAL OSCILLATOR SPXO

TCO-710x series

- Frequency range : 1.5 MHz to 75 MHz
- Supply voltage : 3.3 V
- External dimensions: 5.0 × 3.2 × 1.0 t (mm) Typ.
- Function : Standby (\overline{ST})



Product Number (please contact us)
X1G00xxx1xxx00



Actual size



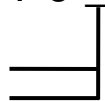
Specifications (characteristics)

Item	Symbol	TCO-710*X1A*	Remarks
Output frequency range	f_o	1.500 MHz to 75.000 MHz	Please contact us for inquiries regarding the available frequencies.
Supply voltage	V _{CC}	3.3 V ±0.33 V	
Storage temperature range	T _{stg}	-55 °C to +125 °C	Store as bare product after unpacking.
Operating temperature range	T _{use}	As per below description	
Frequency tolerance	f_{tol}	As per below description.	
Current consumption	I _{CC}	20 mA Max.	No load condition
Symmetry	SYM	40 % to 60 %	50 % V _{CC} level
High output voltage	V _{OH}	90 % V _{CC} Min.	I _{OH} =-5 mA
Low output voltage	V _{OL}	10 % V _{CC} Max.	I _{OL} =5 mA
Output load condition (CMOS)	L _{CMOS}	15 pF Max.	
Output enable / disable input voltage	V _{IH}	70 % V _{CC} Min.	V _{IH} or OPEN : Enable
	V _{IL}	30 % V _{CC} Max.	V _{IL} or GND : Disable
Rise time / Fall time	t _r / t _f	6 ns Max.	10 % V _{CC} to 90 % V _{CC} level
Start-up time	t _{str}	10 ms Max.	Time at minimum supply voltage to be 0 s
Frequency aging	f_{aging}	±5 × 10 ⁻⁶ / year Max.	+25 °C, V _{CC} =3.3 V, First year

* Part Number

TCO - 7 1 0 X 1 A

<Frequency tolerance / V_{CC} tolerance>
 ±50 × 10⁻⁶ Max. / V_{CC} ±10 % : 6
 ±100 × 10⁻⁶ Max. / V_{CC} ±10 % : 7



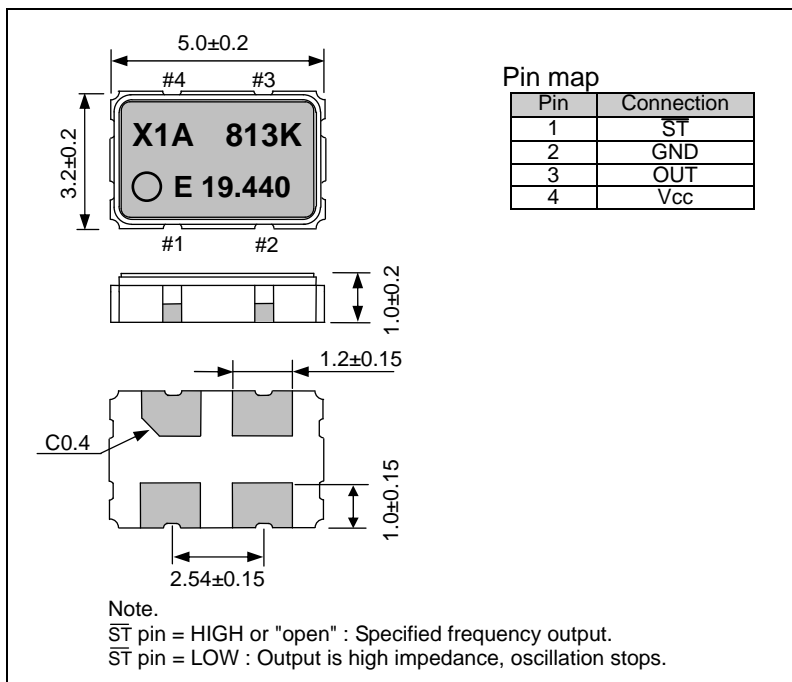
<Operating temperature range>

BLANK: 0 °C to +70 °C
 1: -10 °C to +70 °C
 2: -20 °C to +70 °C
 4: -40 °C to +85 °C



External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)

