

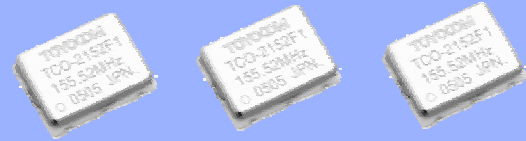


### VOLTAGE-CONTROLLED CRYSTAL OSCILLATOR (VCXO)



# TCO-2152

- Frequency range : 77 MHz to 230 MHz
- Supply voltage : 3.3 V
- Frequency control range :  $\pm 100 \times 10^{-6}$
- Features : Wide frequency control range  
: With HFF-XTAL technology  
: Fundamental oscillation
- Function : Output enable(OE)



Actual size



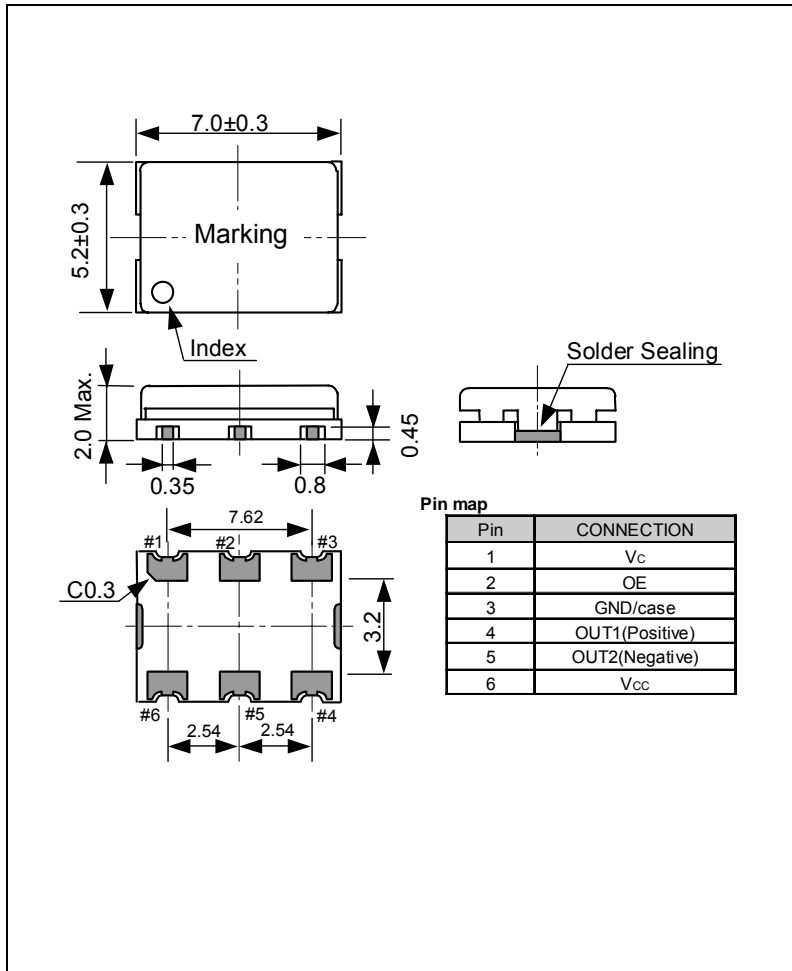
### Specifications (characteristics)

Item	Symbol	TCO-2152	Remarks
Output frequency range	$f_o$	77.000 MHz to 230.000 MHz	
Supply voltage	Vcc	3.3 V $\pm 0.165$ V	
Storage temperature range	T_stg	-45 °C to +90 °C	Store as bare product after unpacking
Operating temperature range	T_use	-40 °C to +85 °C	
Frequency tolerance *1	f_tol(osc)	$\pm 35 \times 10^{-6}$ Max.	-40 °C to +85 °C
Current consumption	Icc	70 mA Max.	
Frequency control range	fcont	$\pm 100 \times 10^{-6}$ Min.	Vc= 1.65V $\pm 1.65$ V
Input resistance	Rin	100 k $\Omega$ Min.	DC level
Frequency change polarity	—	Positive slope	Vc= 0 V to 3.3 V
Output load condition	—	LV-PECL	
Oscillation start up time	tosc	10 ms Max.	Time at minimum supply voltage to be 0 s.
Frequency aging	f_aging	$\pm 5 \times 10^{-6}$ / year Max.	+25 °C, First year

\*1 This does not include initial frequency is tolerance because frequency adjustable.

### External dimensions

(Unit:mm)



### Footprint (Recommended)

(Unit:mm)

