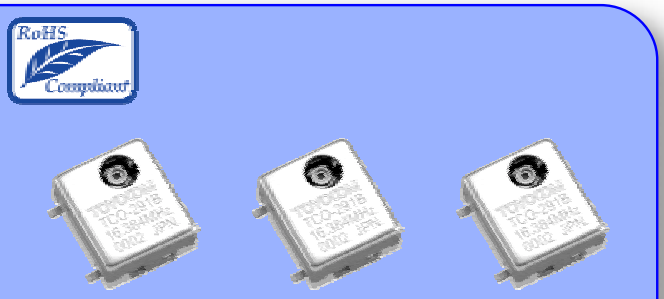
VOLTAGE -CONTROLLED CRYSTAL OSCILLATOR (VCXO)

TCO - 291B / C series

- Frequency range : 8 MHz to 125 MHz
- Supply voltage : 3.3 V, 5.0 V
- Frequency control range : $\pm 100 \times 10^{-6}$
- Features : Wide frequency control range
  : Fundamental mode oscillator with HFF-XTAL (fo≥60 MHz)



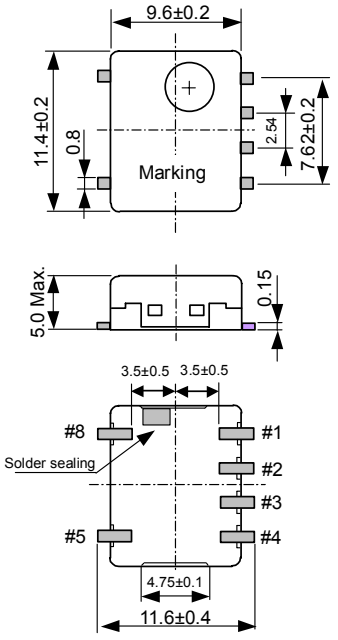
Actual size

Specifications (characteristics)

Item	Symbol	TCO-291B	TCO-291C	TCO-291B2	TCO-291C2	Remarks
Output frequency range	fo	8.000 MHz to 78.000 MHz		8.000 MHz to 125.000 MHz		
Supply voltage	Vcc	5.0 V ±0.25 V		3.3 V ±0.165 V		
Storage temperature range	T_stg	-40 °C to +85 °C				Store as bare product after unpacking
Operating temperature range	T_use	-20 °C to +70 °C				
Frequency tolerance *1	f_tol(osc)	±35 × 10^{-6} Max.				-20 °C to +70 °C
Current consumption	Icc	50 mA Max.				
Frequency control range	fcont	±100 × 10^{-6} Min. Vc = 2.5 V ±2 V		±100 × 10^{-6} Min. Vc = 1.65 V ±1.65 V		
Input resistance	Rin	100 kΩ Min.				DC level
Frequency change polarity	—	Positive slope				
Output load condition(TTL)	L_TTL	2 TTL Max.	–	2 TTL Max.	–	
Output load condition(CMOS)	L_CMOS	–	15 pF Max.	–	15 pF Max.	
Oscillation start up time	tosc	10 ms Max.				Time at minimum supply voltage to be 0 s.
Frequency aging	f_aging	±5 × 10^{-6} / year Max.				+25 °C, First year

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

External dimensions (Unit:mm)



Pin map

Pin	Connection
1	OUT
2,5,8	GND/case
3	Vc
4	Vcc

Footprint (Recommended) (Unit:mm)