

## TCXO MINIATURE SIZE LOW PROFILE

### TCO - 5860 series

- Frequency range : 10 MHz to 40 MHz
- Supply voltage : 2.8 V Typ.
- Frequency / temperature coefficient :  $\pm 2 \times 10^{-6}$  Max.
- External dimensions: 3.2 x 2.5 x 0.9 t (mm) Typ.
- Applications : Cellular phone (WiMAX, CDMA, WCDMA)
- Features : Low current consumption



Product Number (Please contact us)  
X1G0014xxxxxx00



Actual size



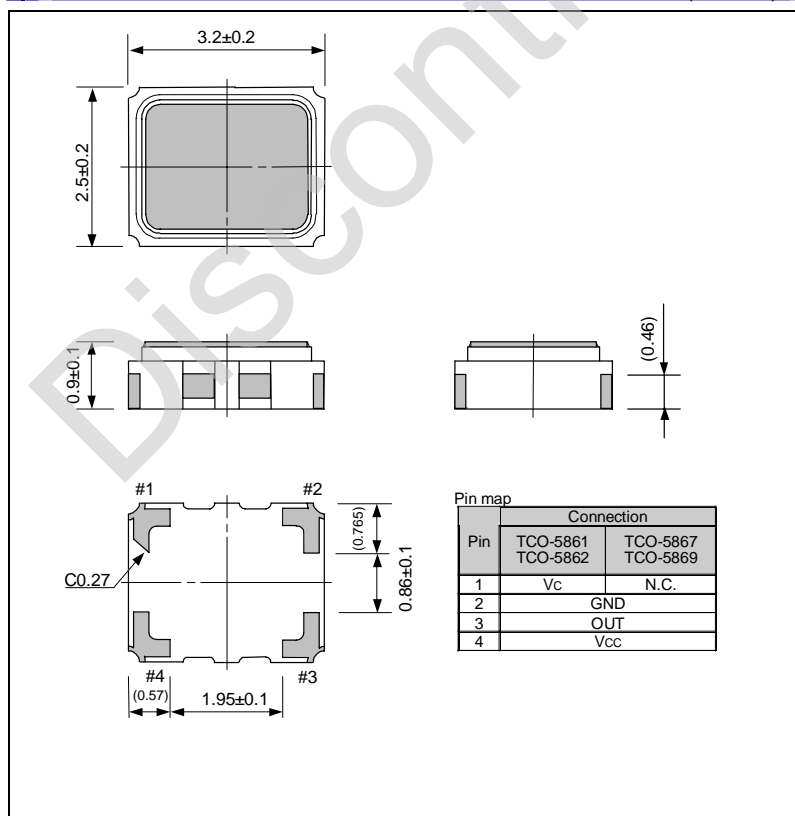
### Specifications (characteristics)

Item	Symbol	VC-TCXO		TCXO		Remarks
		TCO-5861	TCO-5862	TCO-5867	TCO-5869	
Output frequency range	$f_o$	16 MHz to 40 MHz	10 MHz to 20 MHz	16 MHz to 40 MHz		Standard frequency
Supply voltage	V <sub>cc</sub>	2.8 V $\pm 0.14$ V				Supply voltage range : 2.3 V to 3.6 V
Storage temperature	T <sub>stg</sub>	-40 °C to +85 °C				Store as bare product after unpacking
Operating temperature	T <sub>use</sub>	-30 °C to +85 °C				
Frequency tolerance	f <sub>tol</sub>	$\pm 2.0 \times 10^{-6}$ Max.				After reflow V <sub>c</sub> =1.4 V, +25 °C
Frequency/temperature characteristics	f <sub>o</sub> -T <sub>c</sub>	$\pm 2.0 \times 10^{-6}$ Max.				-30 °C to +85 °C
Frequency/load coefficient	f <sub>o</sub> -Load	$\pm 0.2 \times 10^{-6}$ Max.				10 k $\Omega$ // 10 pF $\pm 10$ %
Frequency/voltage coefficient	f <sub>o</sub> -V <sub>cc</sub>	$\pm 0.2 \times 10^{-6}$ Max.				V <sub>cc</sub> =2.8 V $\pm 0.14$ V
Frequency aging	f <sub>age</sub>	$\pm 1.0 \times 10^{-6}$ Max.				+25 °C, First year
Current consumption	I <sub>cc</sub>	2.0 mA Max.				
Input resistance	R <sub>in</sub>	500 k $\Omega$ Min.		—		V <sub>c</sub> - GND (DC)
Frequency control range	f <sub>cont</sub>	$\pm 5.0 \times 10^{-6}$ to $\pm 12.0 \times 10^{-6}$		—		V <sub>c</sub> =1.4 V $\pm 1.0$ V
Frequency change polarity	—	Positive polarity		—		
Symmetry	SYM	40 % to 60 %				GND level (DC cut)
Output voltage	V <sub>pp</sub>	0.8 V Min.				Peak to peak
Output load condition	Load <sub>R</sub>	10 k $\Omega$				DC cut capacitor = 0.01 $\mu$ F
	Load <sub>C</sub>	10 pF				

\* Note : Please contact us for inquiries about specifications other than the above.

### External dimensions

(Unit:mm)



### Footprint (Recommended)

(Unit:mm)

