

## TCXO ULTRA MINIATURE SIZE LOW PROFILE

# TG-5010CG

- Frequency range : 13 MHz to 40 MHz
- Supply voltage : 2.8 V Typ.
- Frequency / temperature characteristics :  $\pm 2 \times 10^{-6}$  Max.
- External dimensions : 2.5 × 2.0 × 0.9 t mm Typ.
- Applications : Cellular phone (CDMA, WCDMA, GSM)
- Features : Low current consumption



Product Number (Please contact us)  
X1G002771xxxx00



Actual size

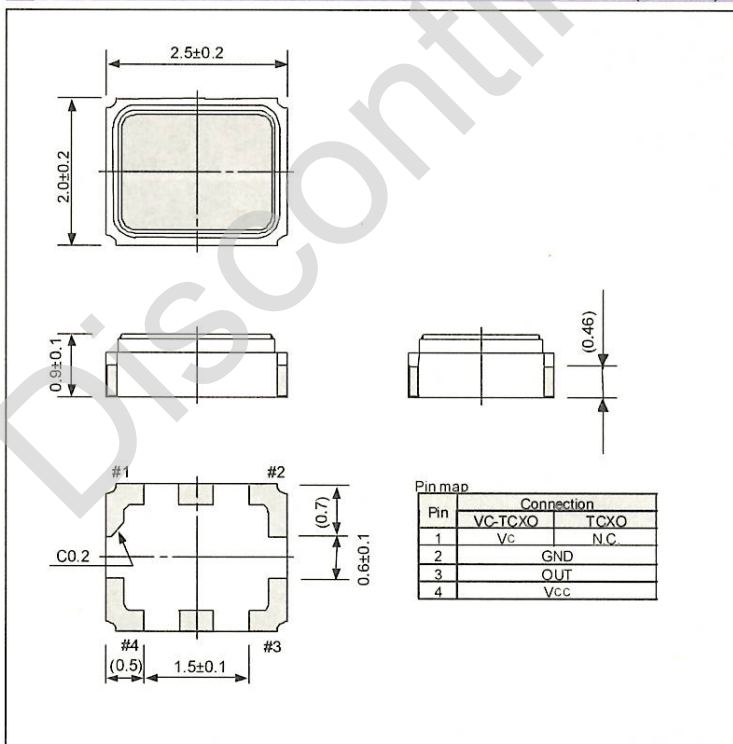
### Specifications (characteristics)

Item	Symbol	Specifications		Remarks
		VC-TCXO	TCXO	
Output frequency range	$f_o$	13 MHz to 40 MHz		Standard frequency 13 MHz, 19.2 MHz, 26 MHz, 27.456 MHz, 38.4 MHz
Supply voltage	$V_{CC}$	2.8 V $\pm 0.14$ V		
Storage temperature range	$T_{stg}$	-40 °C to +85 °C		Supply voltage range : 2.3 V to 3.6 V
Operating temperature range	$T_{use}$	-30 °C to +85 °C		Store as bare product after unpacking
Frequency tolerance	$f_{tol}$	$\pm 2.0 \times 10^{-6}$ Max.		After reflow ( $V_C=1.4$ V, +25 °C)
Frequency/temperature characteristics	$f_o$ -TC	$\pm 2.0 \times 10^{-6}$ Max.		-30 °C to +85 °C
Frequency/load coefficient	$f_o$ -Load	$\pm 0.2 \times 10^{-6}$ Max.		10 k $\Omega$ // 10 pF $\pm 10$ %
Frequency/voltage coefficient	$f_o$ -VCC	$\pm 0.2 \times 10^{-6}$ Max.		$V_{CC}=2.8$ V $\pm 0.14$ V
Frequency aging	$f_{age}$	$\pm 1.0 \times 10^{-6}$ Max.		+25 °C, First year
Current consumption	$I_{CC}$	2.0 mA Max.		
Input resistance	$R_{in}$	500 k $\Omega$ Min.	—	
Frequency control range	$f_{cont}$	$\pm 5.0 \times 10^{-6}$ to $\pm 12.0 \times 10^{-6}$	—	$V_C=1.4$ V $\pm 1.0$ V
Frequency change polarity	—	Positive polarity	—	
Symmetry	SYM	40 % to 60 %		GND level (DC cut)
Output voltage	$V_{pp}$	0.8 V Min.		Peak to peak
Output load condition	Load_R	10 k $\Omega$		DC cut capacitor = 0.01 $\mu$ F
	Load_C	10 pF		

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

### External dimensions

(Unit:mm)



### Footprint (Recommended)

(Unit:mm)

