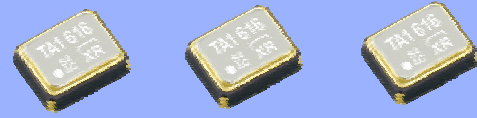


# TCXO ULTRA MINIATURE SIZE LOW PROFILE HIGH STABILITY TG - 5025CG

- Frequency range : 13 MHz to 52 MHz
- Supply voltage : 1.8 V Typ.
- Frequency / temperature characteristics :  $\pm 0.5 \times 10^{-6}$  Max.
- External dimensions: 2.5 × 2.0 × 0.8 t (mm) Typ.
- Applications : Cellular phone (GPS)
- Features : High stability  
: Low supply voltage (1.8 V)



Product Number (Please contact us)  
X1G002771xxxx00



Actual size

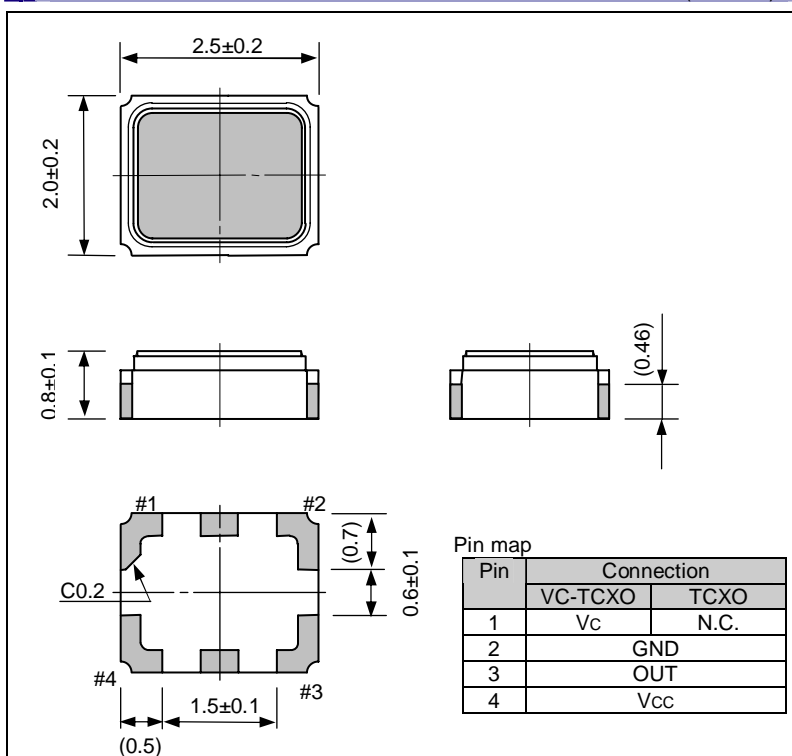
## Specifications (characteristics)

Item	Symbol	Specifications		Remarks
		VC-TCXO	TCXO	
Output frequency range	f <sub>o</sub>	13.000 MHz to 52.000 MHz 13 MHz, 16.368 MHz, 19.2 MHz, 26 MHz, 27.456 MHz, 38.4 MHz		Standard frequency
Supply voltage	V <sub>cc</sub>	1.8 V ± 0.1 V		Supply voltage range : 1.7 V to 3.3 V
Temperature range	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>	±2.0 × 10 <sup>-6</sup> Max.		After reflow V <sub>c</sub> =0.9 V, +25 °C
Frequency/temperature characteristics	f <sub>o</sub> -T <sub>c</sub>	±0.5 × 10 <sup>-6</sup> Max.		-30 °C to +85 °C
Frequency/load coefficient	f <sub>o</sub> -Load	±0.2 × 10 <sup>-6</sup> Max.		10 kΩ // 10 pF ±10 %
Frequency/voltage coefficient	f <sub>o</sub> -V <sub>cc</sub>	±0.2 × 10 <sup>-6</sup> Max.		V <sub>cc</sub> =1.8 V ± 0.1 V
Frequency aging	f <sub>age</sub>	±1.0 × 10 <sup>-6</sup> Max.		+25 °C, First year, 13 MHz f <sub>o</sub> 40 MHz
		±1.5 × 10 <sup>-6</sup> Max.		+25 °C, First year, 40 MHz < f <sub>o</sub> 52 MHz
Current consumption	I <sub>cc</sub>	2.0 mA Max.		13 MHz f <sub>o</sub> 40 MHz
		2.5 mA Max.		40 MHz < f <sub>o</sub> 52 MHz
Input resistance	R <sub>in</sub>	500 kΩ Min.		V <sub>c</sub> - GND (DC)
Frequency control range	f <sub>cont</sub>	±5.0 × 10 <sup>-6</sup> to ±12.0 × 10 <sup>-6</sup>		V <sub>c</sub> =0.9 V ± 0.6 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 kΩ		DC cut capacitor = 0.01 μF
	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)

