

TCXO
ULTRA MINIATURE SIZE LOW PROFILE

TG - 5031CJ

- Frequency range : 13 MHz to 52 MHz
- Supply voltage : 1.8 V Typ.
- Frequency / temperature characteristics : $\pm 2.0 \times 10^{-6}$ Max.
- External dimensions: 2.0 x 1.6 x 0.73 mm
- Applications : Cellular phone (CDMA, WCDMA, LTE)
- Features : Low supply voltage (1.8 V)
Low phase noise



Product Number (Please contact us)
X1G003891xxxx00



Actual size

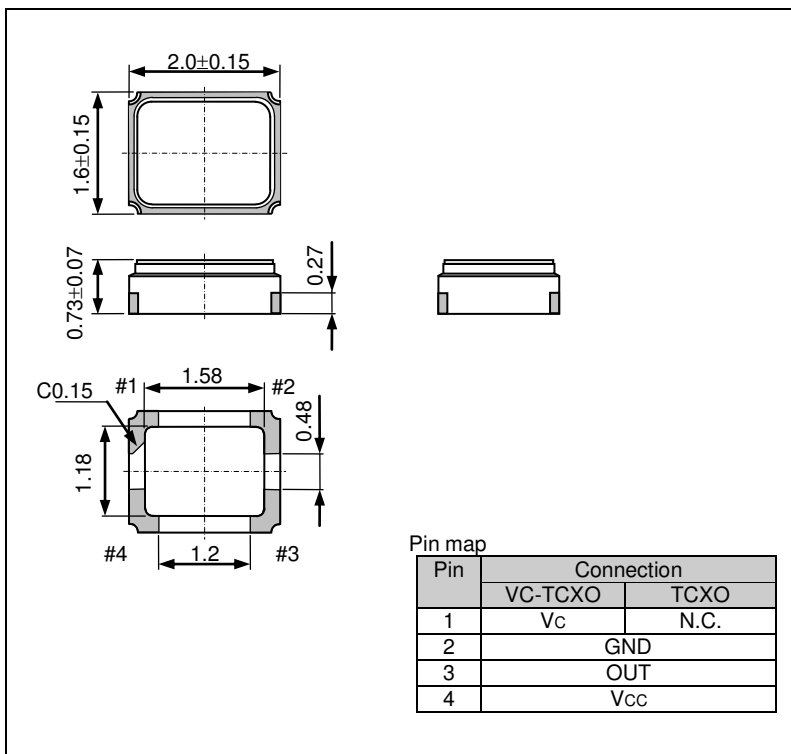
Specifications (characteristics)

Item	Symbol	Specifications		Conditions / Remarks
		VC-TCXO	TCXO	
Output frequency range	f _o	13.000 MHz to 52.000 MHz		Standard frequency
		13 MHz, 19.2 MHz, 26 MHz, 27.456 MHz, 38.4 MHz		
Supply voltage	V _{cc}	1.8 V ± 0.1 V (Supply voltage range :1.7 V to 3.3 V)		
Storage temperature	T _{stg}	-40 °C to +85 °C		Store as bare product.
Operating temperature	T _{use}	-30 °C to +85 °C		
Frequency tolerance	f _{tol}	$\pm 2.0 \times 10^{-6}$ Max.		After reflow, +25 °C
Frequency/temperature characteristics	f _o -T _c	$\pm 2.0 \times 10^{-6}$ Max.		-30 °C to +85 °C
Frequency/load coefficient	f _o -Load	$\pm 0.2 \times 10^{-6}$ Max.		10 k Ω // 10 pF ± 10 %
Frequency/voltage coefficient	f _o -V _{cc}	$\pm 0.2 \times 10^{-6}$ Max.		V _{cc} =1.8 V ± 0.1 V
Frequency aging	f _{age}	$\pm 1.0 \times 10^{-6}$ Max.		+25 °C, First year, 13 MHz \leq f _o \leq 40 MHz
		$\pm 1.5 \times 10^{-6}$ Max.		+25 °C, First year, 40 MHz < f _o \leq 52 MHz
Current consumption	I _{cc}	2.0 mA Max.		
Input resistance	R _{in}	500 k Ω Min.	—	V _c - GND (DC)
Frequency control range	f _{cont}	$\pm 5.0 \times 10^{-6}$ to $\pm 12.0 \times 10^{-6}$	—	V _c =0.9 V ± 0.6 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 Ω		DC cut capacitor = 0.01 μ 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)

