

**NEW**Product Number (Please contact us)
X1G004211xxxx00

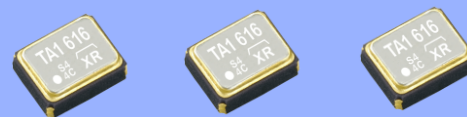
TCXO/VC-TCXO

MINIATURE SIZE LOW PROFILE

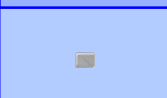
HIGH STABILITY

TG - 5006CG

- Frequency range : 13 MHz to 52 MHz
- Supply voltage : 1.8 V / 2.8 V
- Frequency / temperature characteristics : $\pm 0.5 \times 10^{-6}$ Max. or $\pm 2.0 \times 10^{-6}$ Max.
- External dimensions: 2.5 × 2.0 × 0.8 mm
- Applications : GPS,
Wireless communication devices
(CDMA, WCDMA, LTE, WiMAX, other)
- Features : High stability
: Low supply voltage (1.8V)



Actual size



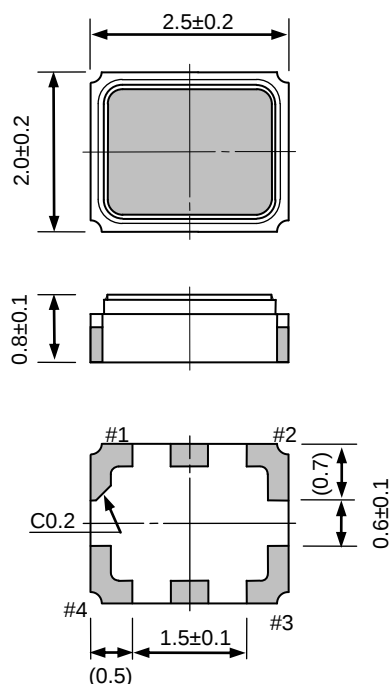
Specifications (characteristics)

Item	Symbol	Specifications		Conditions / Remarks
		VC-TCXO	TCXO	
Output frequency range	f _o	13.000 MHz to 52.000 MHz		Standard frequency
		16.367667 MHz, 16.368 MHz, 16.369 MHz, 19.2 MHz, 26 MHz and 38.4 MHz		
Supply voltage	V _{cc}	1.8 V ±0.1 V / 2.8 V ±0.14 V (Range :1.7 V to 3.3 V)		
Storage temperature	T _{stg}	-40 °C to +90 °C		Storage as single product.
Operating temperature	T _{use}	-30 °C to +85 °C		
Frequency tolerance	f _{tol}	±2.0 × 10 ⁻⁶ Max.		After reflow, +25 °C
Frequency/temperature characteristics	fo-Tc	±0.5 × 10 ⁻⁶ Max. / -30 °C to +85 °C		High stability version for GPS
		±2.0 × 10 ⁻⁶ Max. / -30 °C to +85 °C		Standard stability version
		±2.0 × 10 ⁻⁶ Max. / -40 °C to +85 °C (Option)		Customized product
Frequency/load coefficient	fo-Load	±0.2 × 10 ⁻⁶ Max.		10 kΩ // 10 pF ±10 %
Frequency/voltage coefficient	fo-V _{cc}	±0.2 × 10 ⁻⁶ Max.		V _{cc} =1.8 V ±0.1 V or 2.8 V ±0.14 V
Frequency aging	f _{age}	±1.0 × 10 ⁻⁶ Max.		+25 °C, First year, 13 MHz≤f _o ≤40 MHz
		±1.5 × 10 ⁻⁶ Max.		+25 °C, First year, 40 MHz<f _o ≤52 MHz
Current consumption	I _{cc}	1.5 mA Max.		13 MHz≤f _o ≤26 MHz
		2.0 mA Max.		26 MHz<f _o ≤52 MHz
Input resistance	R _{in}	500 kΩ Min.	—	V _c - GND (DC)
Frequency control range	f _{cont}	±8.0 × 10 ⁻⁶ to ±15.0 × 10 ⁻⁶	—	V _c =0.9 V ±0.6 V (V _{cc} =1.8 V) or V _c =1.4 V ±1.0 V (V _{cc} =2.8 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 kΩ		DC cut capacitor = 0.01 μF
	Load_C	10 pF		

* Note : Please contact us for requirements not listed in this specification.

External dimensions

(Unit:mm)

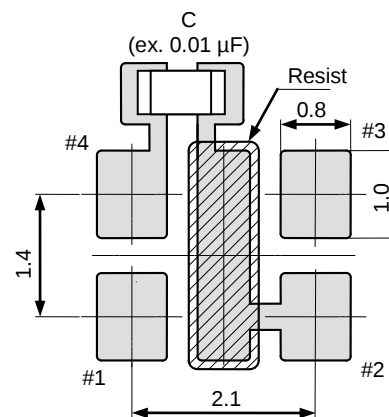


Pin map

Pin	Connection	
	VC-TCXO	TCXO
1	V _c	N.C.
2	GND	
3	OUT	
4	V _{cc}	

Footprint (Recommended)

(Unit:mm)



To maintain stable operation, provide a 0.01μF to 0.1μF by-pass capacitor at a location as near as possible to the power source terminal of the crystal product (between V_{cc} - GND).