TCXO HIGH STABILITY 105 °C HIGH TEMPERATURE





Product Number

TG-5510CA: X1G006001xxxx99 TG-5511CA: X1G006011xxxx99

TG-5510CA TG-5511CA

Frequency range
Supply voltage
To MHz to 54 MHz
3.3 V Typ.
Frequency / temperature characteristics

: $\pm 0.28 \times 10^{-6}$ Max. (-40 °C to +85 °C, 105 °C option)

Free-run accuracy
£4.6× 10⁻⁶ Max. / 20 years (for Stratum3)
External dimensions
7.0 × 5.0 × 1.5 mm (10 pins or 4 pins)
Applications
Network synchronization, Stratum3, BTS, SyncE, IEEE1588, Microwave, BTS
Features
105 °C High temp, High stability





TG-5510CA (10 pins)

TG-5511CA (4 pins)

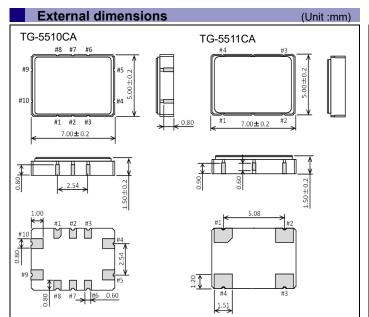
Specifications (characteristics)

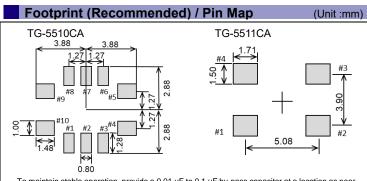
Item	Symbol	CMOS	Clipped sine wave	Condition
Output frequency range	f _o	10 MHz to 54 MHz		Please contact us about available frequencies.
Supply voltage	V _{cc}	3.3 V ±5 %		· ·
Storage temperature	T stg	-40 °C to +105 °C		Storage as single product.
Operating temperature	T_use	-40 °C to +85 °C		Standard
		(-40 °C to +105 °C)		(Option)
a) Frequency tolerance	f_tol	±1.0 × 10 ⁻⁶ Max.		After reflow, +25 °C
b) Frequency/temperature	f _o -T _C	±0.28 × 1		Standard
characteristics		(±0.25 × 10 ⁻⁶ Max.)		(Option)
c) Frequency/load coefficient	f₀-Load	±0.1 × 10 ⁻⁶ Max.		Load ±10 %
d) Frequency/voltage coefficient	f_o - V_{CC}	±0.1 × 1		Vcc ± 5 %
e) Frequency aging	f age	±0.5 × 10 ⁻⁶ Max. ±3.0 ×10 ⁻⁶ Max.		+25 °C, First year
	_agc			+25 °C, 20 years
Holdover stability	_	±0.01 × 10 ⁻⁶ Max. (+25 °C, 24 hours) ±0.04 × 10 ⁻⁶ Max. (+25 °C, 24 hours)		After 10 days of continuous operation
(Constant temperature)	_			After 48 hours of continuous operation
Wander generation (MTIE, TDEV)		Compliant with GR-1244CORE, ITU-T G.8262		
Free-run accuracy	-	±4.6 × 10 ⁻⁶ Ma	ax. / 20 years	This includes Item a), b), c), d) and e)
	I _{cc}	7.0 mA Max.		10 MHz≦fo≦26 MHz
Current consumption		9.0 mA Max.	6.0 mA Max.	26 MHz <fo≦40 mhz<="" td=""></fo≦40>
		10.0 mA Max.		40 MHz <fo≦54 mhz<="" td=""></fo≦54>
Symmetry	SYM	45 % to 55 %	-	GND level (DC cut)
Output voltage	V_{OH}	90 % Vcc Min.	-	
	V_{OL}	10 % Vcc Max.	-	
Rise time / Fall time	tr/tf	8.0 ns Max.	-	10 % Vcc to 90 % Vcc level, Load:15 pF
Start-up time	t_str	5 ms. Max.		t=0 at 90 % V _{CC}
Output level	V_{PP}	-	0.8 V Min.	Peak to Peak
Output load condition	Load	15 pF	10 kΩ//10 pF	
Input voltage	V _{IH}	70% Vcc Min.		OE terminal (Enable voltage)
	V_{IL}	30% Vcc Max.		OE terminal (Disable voltage)

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

Product Name (Standard form) $\frac{\text{TG-5510CA}^{***}}{\boxed{1}} \frac{30.720000\text{MHz}}{\boxed{3}}$

①Model ②Package type ③Spec segment(Please contact us) ④Frequency





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

Pin	Connection	
1, 2, 3, 6, 7, 10	N.C.	
4	GND	
5	OUT	
8	OE	
۵	V/00	

OE pin = "H" or "open": Specified frequency output. OE pin = "L": Output is high impedance.

Pin	Connection
1	N.C
2	GND
3	OUT
1	Vac