

Oven Controlled Crystal Oscillator (OCXO)



OG2525CCN series

- Features : Very fast warm-up and accurate stability
- : SC-Cut Crystal unit



Actual size

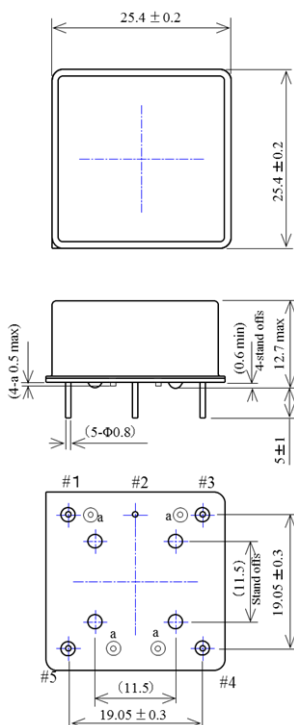
Specifications (characteristics)

Item	Symbol	Specifications		
Output frequency range	fo	10.000 MHz	Standard frequency	
Supply voltage	Vcc	5V ±0.25V	Option 3.3V ±0.165V	
Storage temperature range	T_stg	-40 °C to +85 °C		
Operating temperature range	T_use	-20 °C to +70 °C	Option -40 °C to +85 °C	
Frequency tolerance*	Initial tolerance	±200 × 10 ⁻⁹ Max.	+25 °C, Vcc=5.0V	
	Frequency/temperature characteristics	fo-Tc	±50 × 10 ⁻⁹ Max.	
	Frequency/voltage coefficient	fo-Vcc	±5 × 10 ⁻⁹ Max.	-20 °C to +70 °C
	Frequency/load coefficient	Fo-load	±5 × 10 ⁻⁹ Max.	Vcc=5 V ±0.25V
	Frequency aging	f_age	±3 × 10 ⁻⁹ / day Max. ±100 × 10 ⁻⁹ / year Max.	Temp.& Vcc=const.
Warm-up	—	±50 × 10 ⁻⁹ / 5 min Max.	at +25 °C	
Frequency tuning		±0.2 × 10 ⁻⁶ to ±0.8 × 10 ⁻⁶	Vcont 0 to 5V positive slope	
Current consumption	Warm-up	650 mA Max.		
	Steady state	300 mA Max.	at +25 °C	
Symmetry	SYM	45% to 55%	At 2V	
Output voltage	V _{OH} /V _{OL}	V _{OH} = 2.4V Min. / V _{OL} = 0.4V Max.		
Output load condition	Load C	15 pF		
Phase noise (10MHz)	1Hz	-80 dBc/Hz typ.		
	10Hz	-100 dBc/Hz typ.		
	100Hz	-130 dBc/Hz typ.		
	1kHz	-140 dBc/Hz typ.		
	10kHz	-145 dBc/Hz typ.		

* Please ask for tighter tolerance.

External dimensions

(Unit:mm)



Pin map	
#1	OUTPUT
#2	GND/CASE
#3	Vcont
#4	N.C.
#5	Vcc