



### Features

- Digital processing temperature compensated crystal oscillator
- Excellent frequency temperature characteristics and frequency aging
- CMOS output

### Applications

- Reference Oscillator
- PLL Oscillator

### How to Order

DO 20.000000000 M 00001  
① ② ③ ④

- ① Function  
DO→DTCXO, DV→VC-DTCXO
- ② Output Frequency
- ③ Frequency Unit  
M→MHz, K→kHz
- ④ Individual Specification

### Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	F <sub>o</sub>		1	32	MHz
Frequency Tolerance	F <sub>tol</sub>	vs Temperature DTCXO-12A/VC-DTCXO-12A : VC=Open	-0.1	+0.1	×10 <sup>-6</sup>
		vs Voltage	-0.05	+0.05	
Storage Temperature Range	T <sub>stg</sub>		-40	+85	°C
Operating Temperature Range	T <sub>use</sub>		-35	+85	°C
Supply Voltage	V <sub>CC</sub>		4.75	5.25	V
Current Consumption	I <sub>CC</sub>		—	30	mA
Frequency Tuning Range	Δf tuning	Internal Trimmer	-0.7	0.7	×10 <sup>-6</sup>
Frequency Aging	ΔF aging	Per Year (at +25°C)	-0.5	0.5	×10 <sup>-6</sup>
Frequency Deviation	Δf/V	VC-DTCXO-12A Only	-2	2	×10 <sup>-6</sup>
Control Voltage	VC	VC-DTCXO-12A Only	0.5	4.5	V
Symmetry	SYM	@50% V <sub>CC</sub> 1 to 15MHz	45	55	%
		@50% V <sub>CC</sub> 15 to 32MHz	30	70	
Output Voltage-"L"	V <sub>OL</sub>		—	0.5	V
Output Voltage-"H"	V <sub>OH</sub>		4.5	—	V
Load	CL		15	15	pF
Sub Harmonics			—	-80	dB

Note: All electrical characteristics are defined at the maximum load and operating temperature range.

### Dimensions

(Unit : mm)

