



RoHS Compliant

## 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 20.000000 M 07001AG  
①                    ②                    ③                    ④

- ① Function  
DO → DTCXO, DV → VC-DTCXO
- ② Output Frequency
- ③ Frequency Unit  
M → MHz
- ④ Individual Specification  
07001AG → DTCXO,  
07002AG → VC-DTCXO

## Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	f <sub>o</sub>		1	32	MHz
Frequency Tolerance	f <sub>o</sub> -T <sub>c</sub>	vs Temperature DTCXO-22A/ VC-DTCXO-22A: VC=Open	-0.1	+0.1	×10 <sup>-6</sup>
	f <sub>o</sub> -V <sub>cc</sub>	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	f <sub>tuning</sub>	Internal Trimmer	-0.7	+0.7	×10 <sup>-6</sup>
Frequency Aging	f <sub>age</sub>	Per Year (at +25°C)	-0.5	+0.5	×10 <sup>-6</sup>
Frequency Deviation	f <sub>cont</sub>	VC-DTCXO-22A Only	-2	+2	×10 <sup>-6</sup>
Control Voltage	VC	VC-DTCXO-22A Only	0.5	4.5	V
Symmetry	Symmetry	@50% V <sub>cc</sub> 1 to 15MHz	45	55	%
		@50% V <sub>cc</sub> 15 to 32MHz	30	70	
Low Level Output Voltage	V <sub>OL</sub>		—	0.5	V
High Level Output Voltage	V <sub>OH</sub>		4.5	—	V
Load	L-CMOS		15	15	pF

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

## Dimensions

(Unit: mm)

