

# High Precision Crystal Oscillators Digital TCXO (VC-) DTCXO-23A



RoHS Compliant

## Features

- Digital processing temperature compensated crystal oscillator
- Output 50Ω
- Wide frequency range

## Applications

- Reference Oscillator
- PLL Oscillator

## How to Order

DO 100.000000 M 07003AG

①                    ②                    ③                    ④

- ① Function  
DO → DTCXO, DV → VC-DTCXO
- ② Output Frequency
- ③ Frequency Unit  
M → MHz
- ④ Individual Specification  
07003AG → DTCXO,  
07004AG → VC-DTCXO

## Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	$f_o$		30	320	MHz
Frequency Tolerance	$f_o - T_c$	vs Temperature DTCXO-23A/ VC-DTCXO-23A: VC=Open	-0.1	+0.1	$\times 10^{-6}$
	$f_o - V_{cc}$	vs Voltage	-0.05	+0.05	
Storage Temperature Range	$T_{stg}$		-40	+85	$^{\circ}C$
Operating Temperature Range	$T_{use}$		-20	+70	$^{\circ}C$
Supply Voltage	$V_{cc}$		4.75	5.25	V
Current Consumption	$I_{cc}$		—	40	mA
Frequency Tuning Range	$f_{tuning}$	Internal Trimmer	-0.7	+0.7	$\times 10^{-6}$
Frequency Aging	$f_{age}$	Per Year (at +25 $^{\circ}C$ )	-0.5	+0.5	$\times 10^{-6}$
Frequency Deviation	$f_{cont}$	VC-DTCXO-23A Only	-2	+2	$\times 10^{-6}$
Control Voltage	VC	VC-DTCXO-23A Only	0.5	4.5	V
Output Level	Output Level		0	—	dBm
Load	Load-R		50	50	ohm
Sub Harmonics	—		—	40	dB

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

## Dimensions

(Unit: mm)

