

High Precision Crystal Oscillators Digital TCXO (VC-) DTCXO-22A



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 0000000 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_o		1	32	MHz
Frequency Tolerance	$f_o - T_c$	vs Temperature DTCXO-22A/ VC-DTCXO-22A: 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}		-35	+85	$^{\circ}C$
Supply Voltage	V_{cc}		4.75	5.25	V
Current Consumption	I_{cc}		—	30	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-22A Only	-2	+2	$\times 10^{-6}$
Control Voltage	VC	VC-DTCXO-22A Only	0.5	4.5	V
Symmetry	Symmetry	@50% V_{cc} 1 to 15MHz	45	55	%
		@50% V_{cc} 15 to 32MHz	30	70	
Low Level Output Voltage	V_{OL}		—	0.5	V
High Level Output Voltage	V_{OH}		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)

