

High Precision Crystal Oscillators

Digital TCXO 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
- ② Output Frequency
- ③ Frequency Unit
M → MHz
- ④ Individual Specification
07001AG → DTCXO

Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	f _o	—	1	32	MHz
Frequency Tolerance	f _o -T _c	vs Temperature	-0.1	+0.1	×10 ⁻⁶
	f _o -V _{cc}	vs Voltage	-0.05	+0.05	
Storage Temperature Range	T _{stg}	—	-40	+85	°C
Operating Temperature Range	T _{use}	—	-35	+85	°C
Supply Voltage	V _{cc}	—	4.75	5.25	V
Current Consumption	I _{cc}	—	—	30	mA
Frequency Adjustment Range	f _{adjust}	Internal Trimmer	-0.7	+0.7	×10 ⁻⁶
Frequency Aging	f _{age}	1 year (at +25°C)	-0.5	+0.5	×10 ⁻⁶
Symmetry	Symmetry	@ 50% V _{cc} / 1 to 15MHz	45	55	%
		@ 50% V _{cc} / 15 to 32MHz	30	70	
Low Level Output Voltage	V _{OL}	—	—	10% V _{cc}	V
High Level Output Voltage	V _{OH}	—	90% V _{cc}	—	V
Load	L _{CMOS}	—	—	15	pF

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

Dimensions

(Unit: mm)

